AVerMedia®

AVerDiGi SF1311H-DV IP Camera

User's Manual

June 2010

FCC NOTICE (Class B)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Federal Communications Commission Statement

NOTE- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by tuning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

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WARNING

To prevent fire or shock hazard, do not expose the unit to rain or moisture.

For AC adaptor to avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

[Notice]

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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Overview

This user's guide explains how to operate this camera from a computer. User should read this manual completely and carefully before you operate the device.

Introduction

This camera is an inexpensive and fully scalable surveillance device. Because the IP cameras can be plugged into your existing local area network (LAN), you will potentially save thousands of dollars from unnecessary cabling.

The device is accessible via the LAN or Internet connection. Connect your device directly to a local area network or xDSL modem, and with Microsoft® Internet Explorer you get instant, on demand video streams. Within minutes you can set up the device to capture a video sequence to a PC. The live video can be uploaded to a website for the world to see.

Features

- Vandal proof enclosure
- 24pcs IR LED, over 10m IR distance
- Vari-focal lens with auto iris and ICR
- Easy installation with setup wizard
- UPnP device discovery and NAT router transversal for easy installation
- Mega-pixel resolution up to 1280x1024
- Up to 11-profile encoder simultaneously
- Mega-pixel or VGA mode selectable
- UDP / TCP / HTTP protocols selectable
- Supports video/audio multi-casting
- 3GPP for 3G mobile remote application
- 30 fps for VGA mode
- 15 fps for Mega-pixel mode
- Digital zoom
- External microphone input
- Audio line out
- Two-way audio
- Intelligent motion detection up to 10 zones
- Voice alerting while motion triggered
- Image transmission using an FTP or e-mail for event
- Sensor input and alarm output
- RS485 interface for P/T scanner control
- DDNS and PPPoE
- Multi-channel control software for surveillance application
- On-line firmware upgrade
- IEEE 802.3af Power over Ethernet (PoE)

Minimum System Requirements

- Microsoft Internet Explorer 6.0 or later
- Microsoft Media Player 11.0 or later (to playback recorded file)
- VGA Monitor resolution 1280 x 1024 or higher
- Pentium-4 2.0 GHz or higher
- Memory Size: 512MB or more
- Windows XP, Vista, 7

Package Contents

User can find the following items in the package as below:

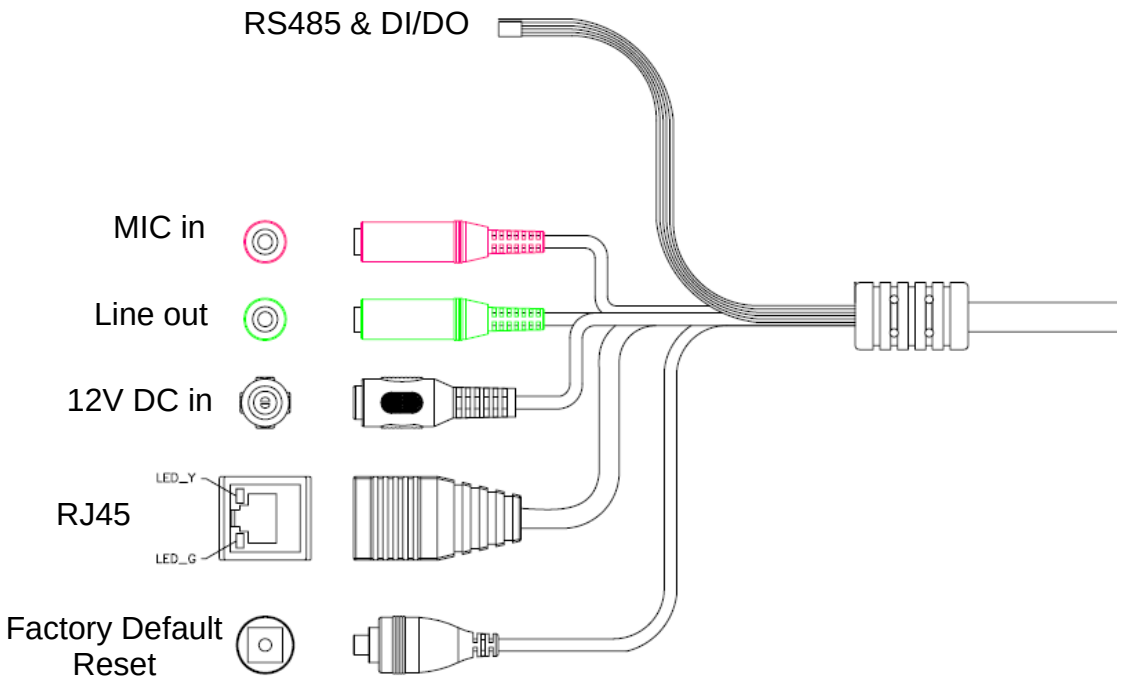
Item	Descriptions
	1. SF1311H-DV
	2. Screw x 4
	3. L-Wrench
	4. Power Adaptor(12V DC)
	5. CD (User's Manual included)
	6. Quick Guide

*If any of the above items are missing, please contact your dealer immediately.

** All specification and designs are subject to change without notice.

[Note] Using the incorrect power adaptor will cause damage and void the warranty for this product.

Connections



- **RS485 & DI/DO**

Name	Cable Color	Function
12V Output	Brown/White	DC 12V (50mA maximum)
GND	Blue/White	GND
D+	Purple/White	RS485 TX +
D-	Gray	RS485 TX -
DI	Green/White	Digital signal input(sensor)
DO	Orange/White	Digital signal output (alarm)

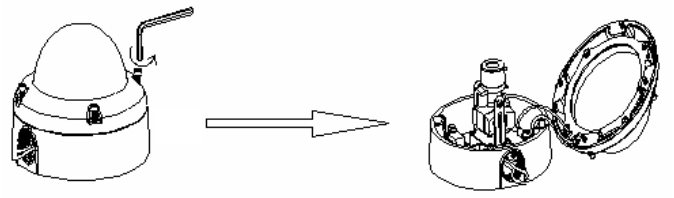
- **MIC in (audio in):** Connect an external microphone to the IP camera.
- **Line out (audio out):** Connect a speaker to the IP camera. This function is for voice alerting and two-way audio.
- **12V DC Jack:** Connect to the power adaptor that included in the package (12VDC).
- **RJ45 LAN Socket:** Connect to PC or Hub/Switch.
  For connections to 10Base-T Ethernet or 100Base-TX Fast Ethernet cabling. This Ethernet port built N-Way protocol can detect or negotiate the transmission speed of the network automatically. Please use CAT 5 cable to connect the IP Camera to a 100Mbps Fast Ethernet network switch or hub.
  In the RJ-45 LAN socket, there are two LEDs embedded:
  LAN LED (green color): This LED will be flashing while network accessing via Ethernet.
  Power or Wireless LED (orange color): This LED is used to indicate whether DC power is ON or OFF. In addition, this LED will be flashing while the wireless accessing the camera.
- **Factory Default Reset:** This button is used to restore all factory default settings.
  Restore the device:
  1. Press the button down continuously.
  2. Hold the button at least 5s seconds and release it. Then the device has been

restored to factory default settings and reboot again.

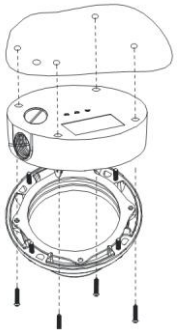
[Note] Restoring the factory default setting will lose the all previous settings included IP address forever. User needs to run the IPWizard II program to search the device and configure it to let the device work properly again.

Hardware Installation

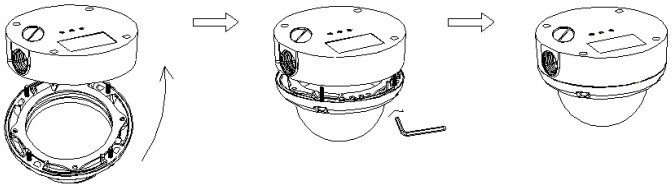
1. Use the L-wrench to loosen the tamper-resistant housing cover (with screws still attached on the cover). The unit has a factory installed side conduit entry and one may adjust the cables to back conduit entry according to installation requirement.



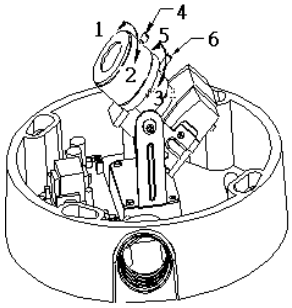
2. Set the mounting base onto the wall or ceiling and center it over the mounting hole, using four retaining screws to secure the main body.



3. Set the proper image by moving the camera body (some model may limit the PCB board to 180° rotational adjustment) and set the focus by turning the lens to the left or right direction.
4. When the camera focus adjustment has been completed, use the L-wrench to fasten the tamper-resistant housing to the main body.



5. Vari-Focal Dome Operation Guide: Once the picture appears on the monitor, open the cover and adjust the lens wrench to “Near←→Far”, get the view zoom that you desire, and then adjust the focus wrench of the lens to obtain the best picture. After adjustment, tighten both wrenches.



1. Near
2. Far
3. Wide
4. Focal Adjustment
5. Tele
6. Zoom Adjustment

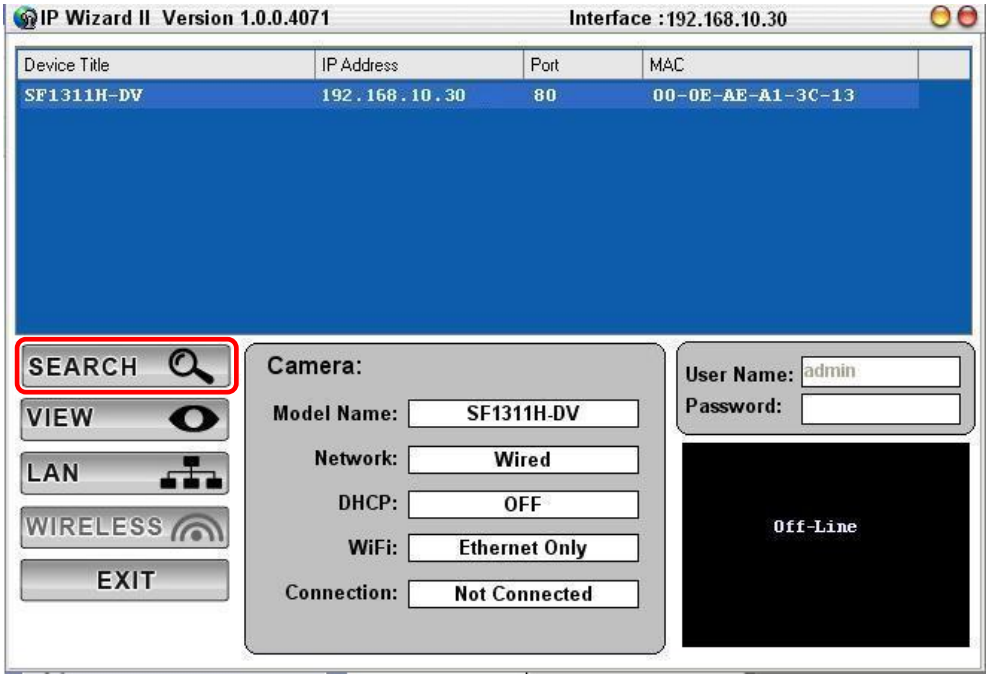
6. CAT 5 cable must connect to the hub or switch, and the DC-Jack must connect to the power source. Connect the other cables and connectors if necessary.

Preparation

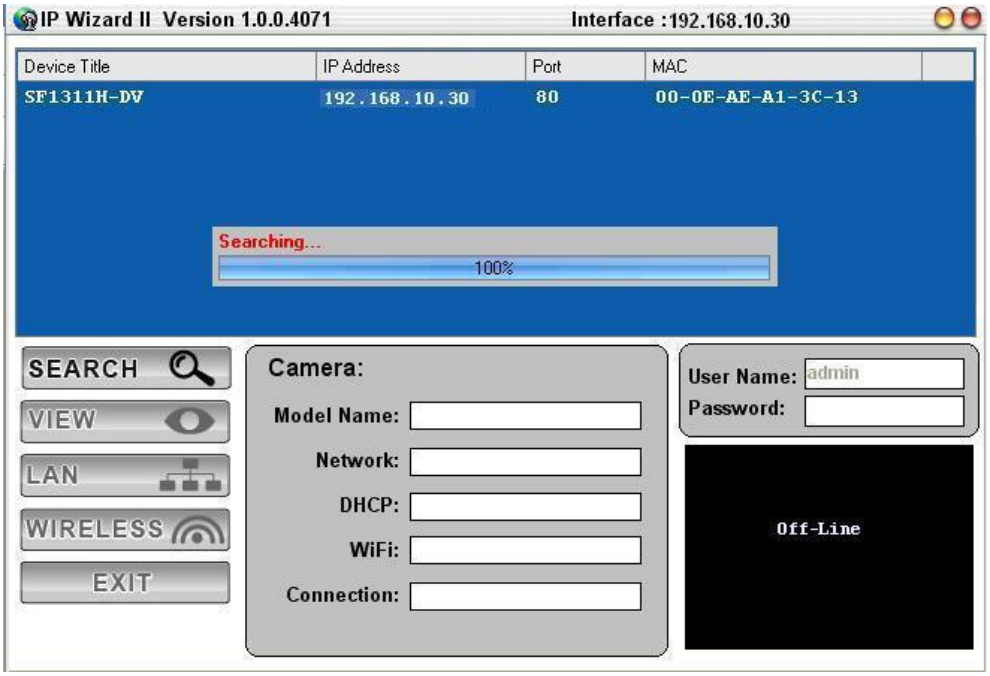
Search and Set up by IPWizard II

When you installed the Camera on a LAN environment, you have two easy ways to search your Cameras by IPWizard II or UPnP™ discovery. Here is the way to execute IPWizard II to discover Camera's IP address and set up related parameter in a Camera.

Search

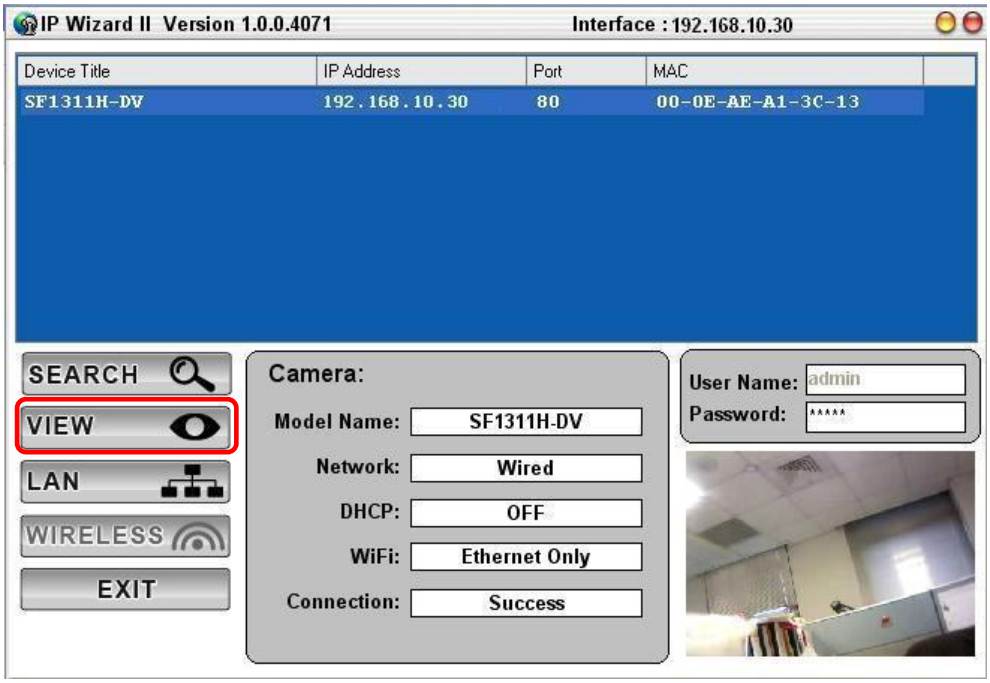


When launch the IPWizard II, a searching window will pop up. IPWizard II is starting to search Network Cameras on the LAN. The existed devices will be listed as below.



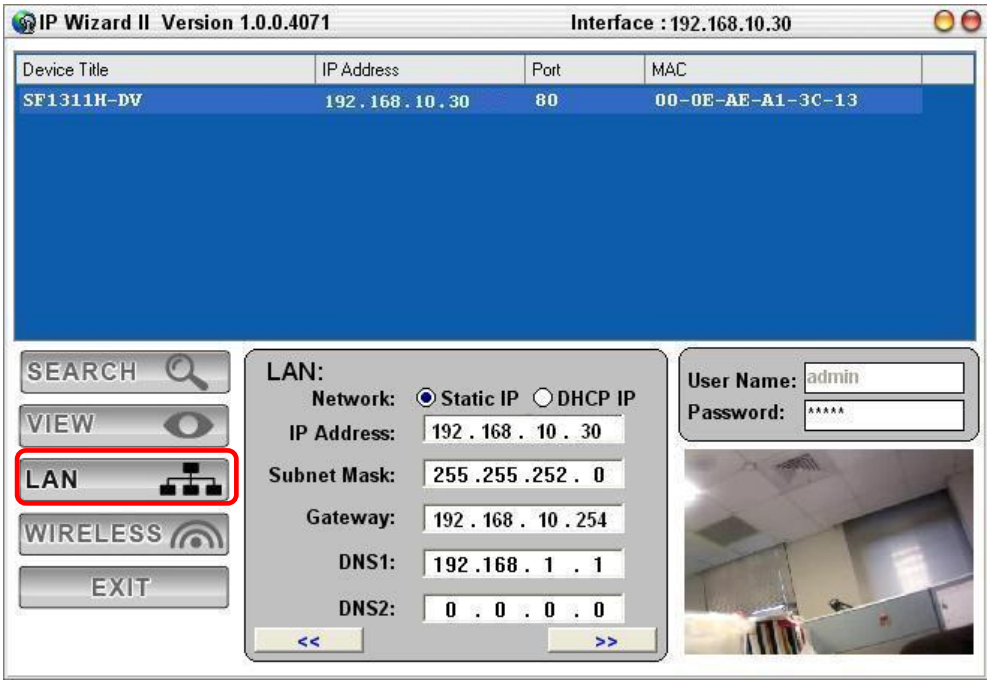
View

If IPWizard II finds network devices, **View** button will be available. Please select the device you want to view and typing Password (Default: **admin**), at last click the **View** button. Then you could see the video from camera directly. Furthermore you could double click the left button of mouse to link to the network device by browser.

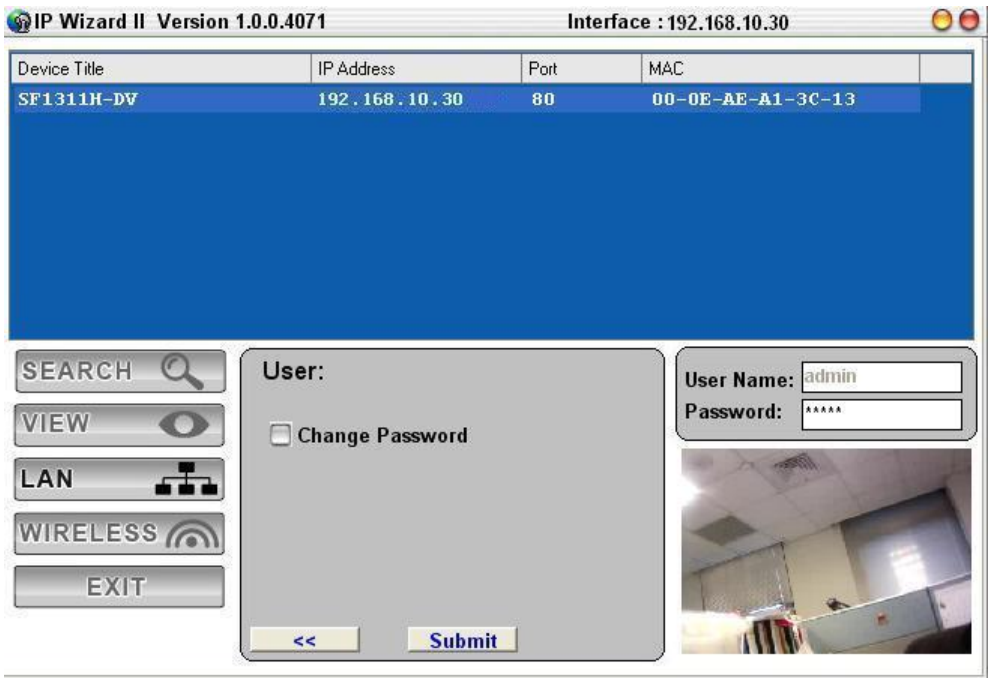


LAN

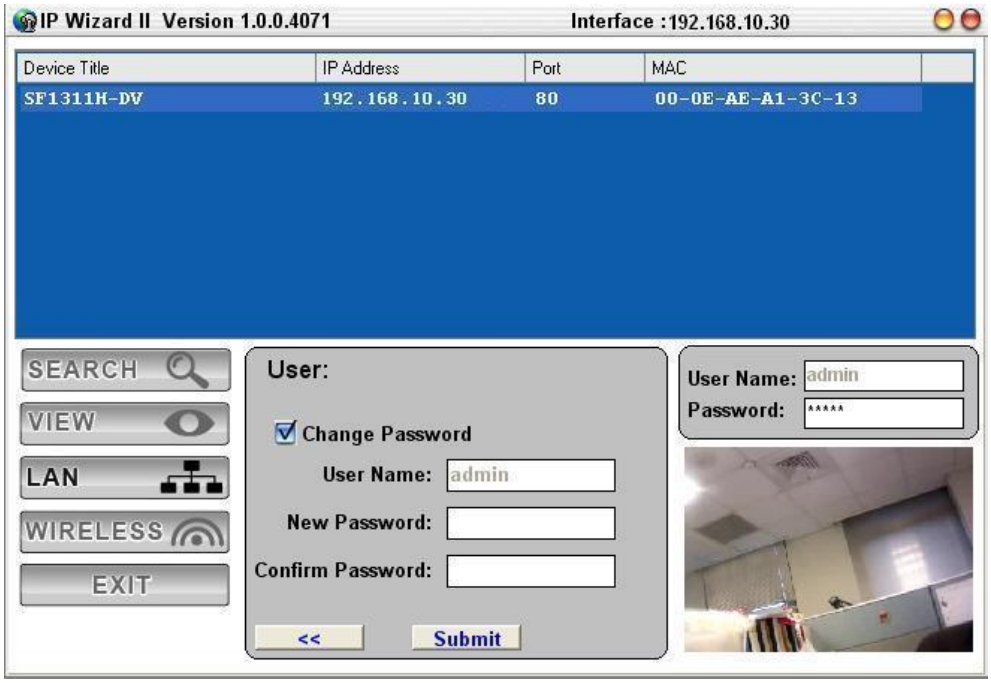
In case you want to change the IP related parameters of wired interface, please select the device you want to configure and click the **LAN** button. Relative settings will be carried out as below.



You could modify the relative settings of the selected device. Click "**<<**" button will quit the LAN setting procedure and click "**>>**" button will move to next page as below.



In case, you do not want to change username and/or password, then just click "**Submit**" button to perform your setting accordingly. Click "**<<**" button will go back to previous page.
If you like to change username and/or password of the device, just click the check button. Then, the related fields will show up as below.



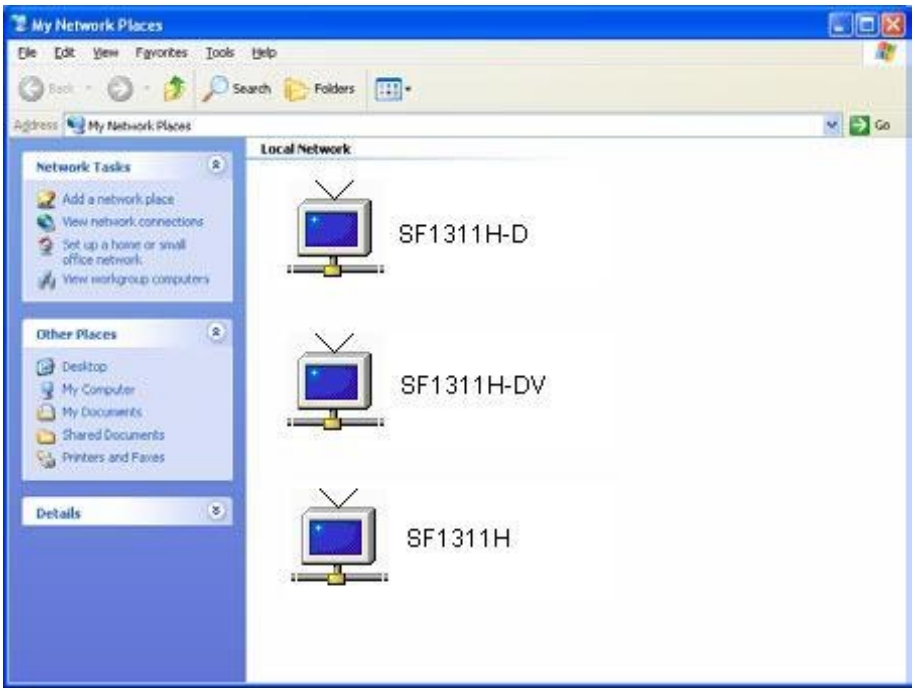
After keying in new username and password, click "**Submit**" button to perform your setting accordingly. Click "**<<**" button will go back to previous page.

Using UPnP of Windows® XP or Vista

UPnP™ is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. This device is an UPnP enabled device. If the operating system, Windows XP or Vista, of your PC is UPnP enabled, the Network Camera will be very easy to be found.

Please refer to Appendix J to enable UPnP settings only if your operating system of PC is running Windows XP.
[Note] Windows 2000 does not support UPnP feature.

To discover your device, go to your Desktop and click **My Network Places**.



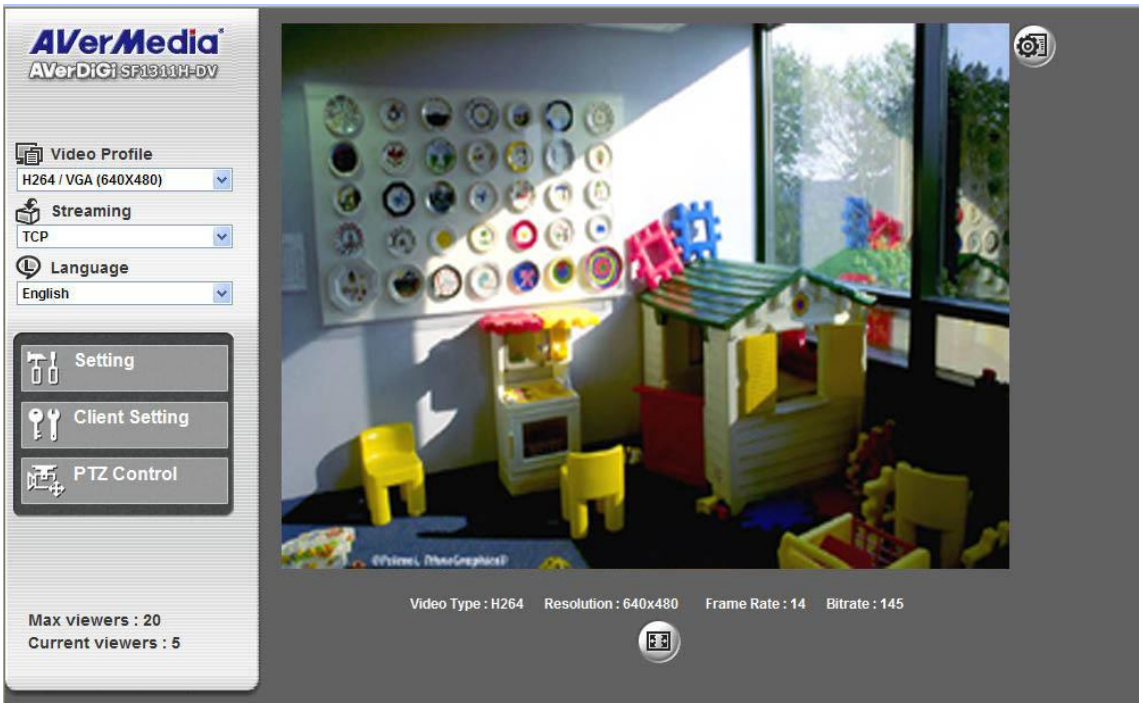
Click the targeted **Device.** Then Internet Explorer will connect to this Network Camera automatically.

Using Browser to Access the device for the first time

1. Start the web browser on the computer and type the IP address of the Network Camera (Default IP is **192.168.10.30**) you want to monitor.
2. The Login Window of the Camera is prompted:

3. Type in your login name and password under “USERNAME” and “PASSWORD” textbox. For the first time use (default value), input the
   - ✓ User Name: **admin**
   - ✓ Password: **admin**

   Click “**OK**” button to start the main menu.
4. According your browser’s security setting, the IE Web Page may prompt the “Security Warning” window. If so, select “**Yes**” to install and run the ActiveX control into your PC. Otherwise, the system will load the ActiveX silently.
5. After the ActiveX control was installed and ran, the first image will be displayed.



Logging as an User

If you log in the Camera as an ordinary User, “Setting” function will be not accessible.

Logging as an Administrator

If you log in the Network Camera as the Administrator, you can perform all the settings provided within the device.

Operating the IP Camera

Start-up screen will be as follow no matter an ordinary users or an administrator.

Video Profile

The Network Camera support multi-profile for MEPG-4, M-JPEG and H.264 simultaneously. User can chose the proper and/or preferred profile here.

Streaming Protocol

User can select proper streaming protocol according to networking environment.

Language

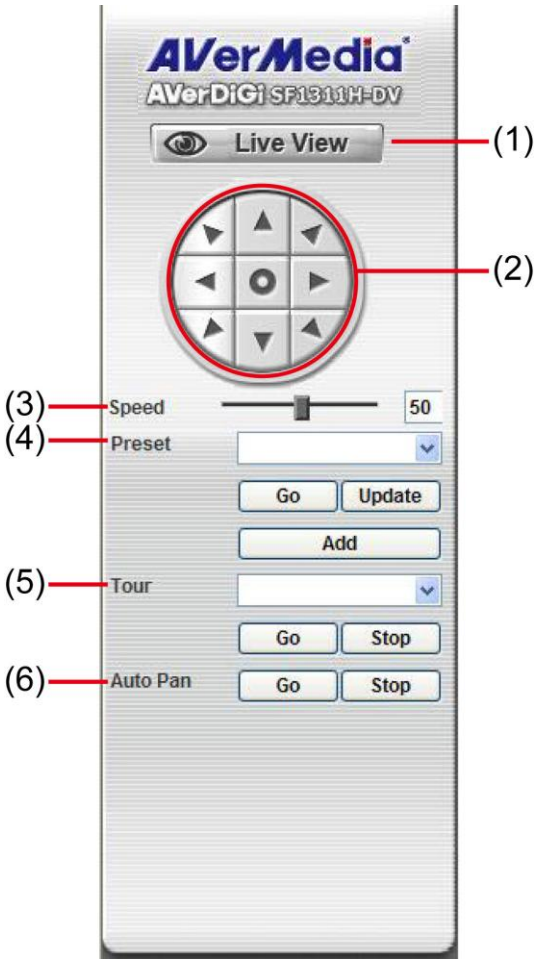
The device could provide multiple languages to meet customer's requirement.

Setting

Configuring the IP camera related parameters. Please refer to Administrating the Device section.

PTZ Control

Click to display the following control panel:



(1) Live View: Switch back to live view mode.

(2) Direction Control Buttons: Control camera lens to go up/down/left/right and home position.

(3) Camera speed: Choose the speed of Pan and Tilt.

(4) Preset: Add/Update the preset positions or go to one of these positions.

(5) Tour: Select one of the camera tours. Camera tour is comprised by series of preset locations. Click **Go** button to execute the selected camera tour. To stop the tour, click **Stop** button. To add new tour, click **Add** button.

(6) Auto Pan: Execute the auto pan of camera. While auto pan is running, the camera will swing the camera automatically. To enable auto pan, click **Go** button and click **Stop** button to stop auto pan action.

[Note] The speed of auto pan is fixed and cannot be adjusted.

Full Screen

Switch to the full screen display mode.

Status Bar

Show the information of connected device such as encoder format, image resolution, frame per second, and bit rate.

Monitor Image

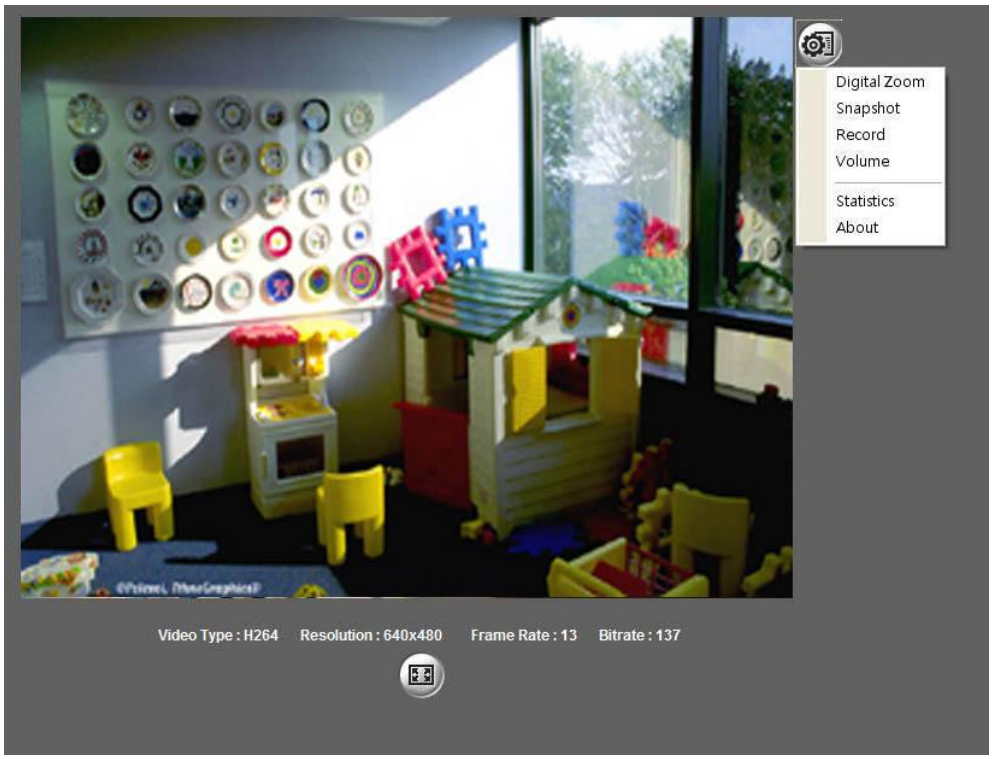
The image shot by the Network Camera is shown here. The date and time are displayed at the top of the window.

ActiveX Control

The plug-in ActiveX control supports a lot of functions by clicking the left mouse button. Note that this feature only supports on the ActiveX control within Microsoft® Internet Explorer.

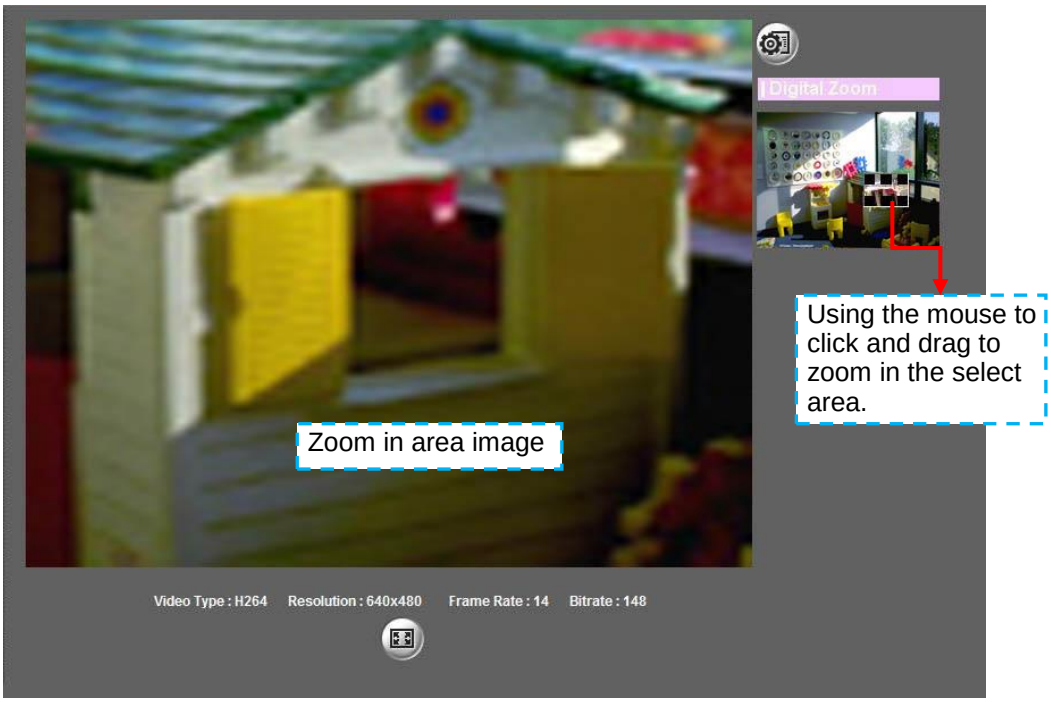
Click on the ActiveX control icon to show the function menu. All features are applied to your PC **NOT** the IP camera. This menu provides features that are unique to the ActiveX control. These features include:

- Digital Zoom
- Snapshot
- Record
- Volume
- Statistics
- About



Digital Zoom

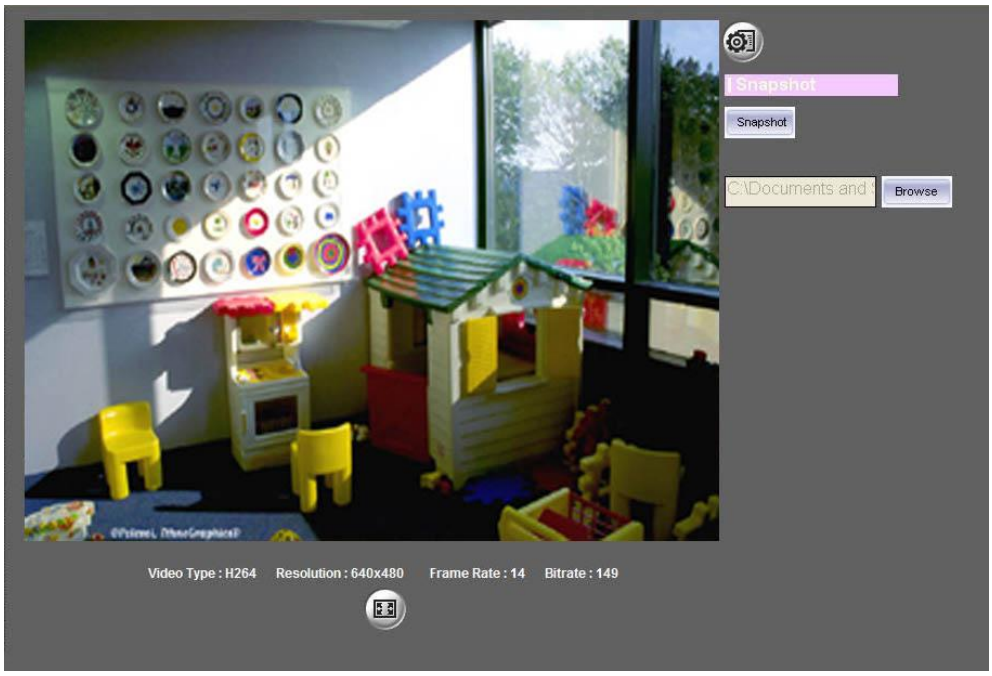
Click **Digital Zoom** to active this function as below. User can drag or scale the box over the video to adjust zoom ratio and position.


Digital Zoom
Using the mouse to click and drag to zoom in the select area.
Zoom in area image
Video Type : H264 Resolution : 640x480 Frame Rate : 14 Bitrate : 148

Snapshot

Click **Snapshot** to activate this function. Press **Snapshot** button to take a picture. The image file is saved as JPEG format into your local PC. Press **Browse** and select the path to save file. Press **OK** to continue.

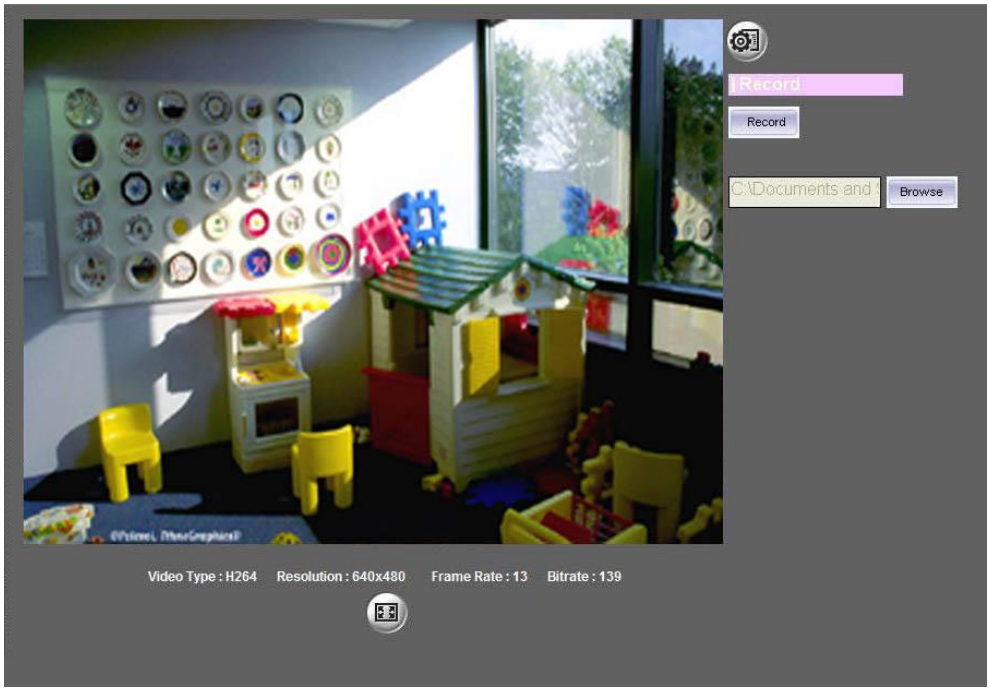
User could use image editing software to retrieve the saved pictures.



Record

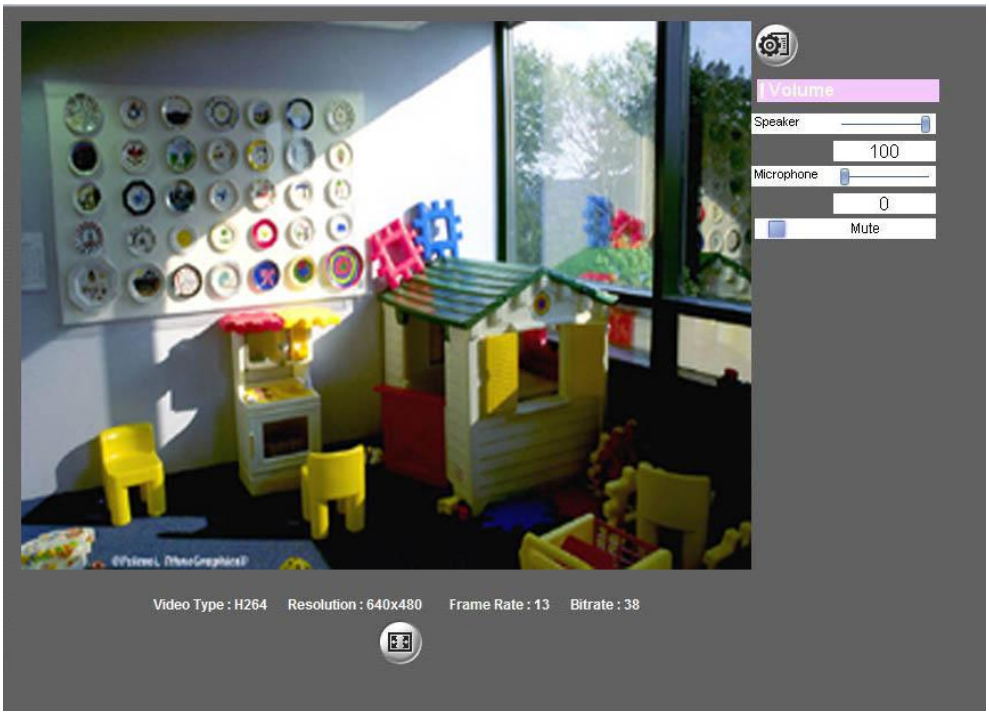
Click **Record** to activate this function. Press **Record** button to start recording. The video file is saved as **ASF** format into your local PC. While you want to stop it, press **Stop**. Press **Browser**, and select the path to save file. Press **OK** to continue.

To saved ASF file could be displayed on Windows Media Player which has been installed ffdshow or DirectX 9.0.



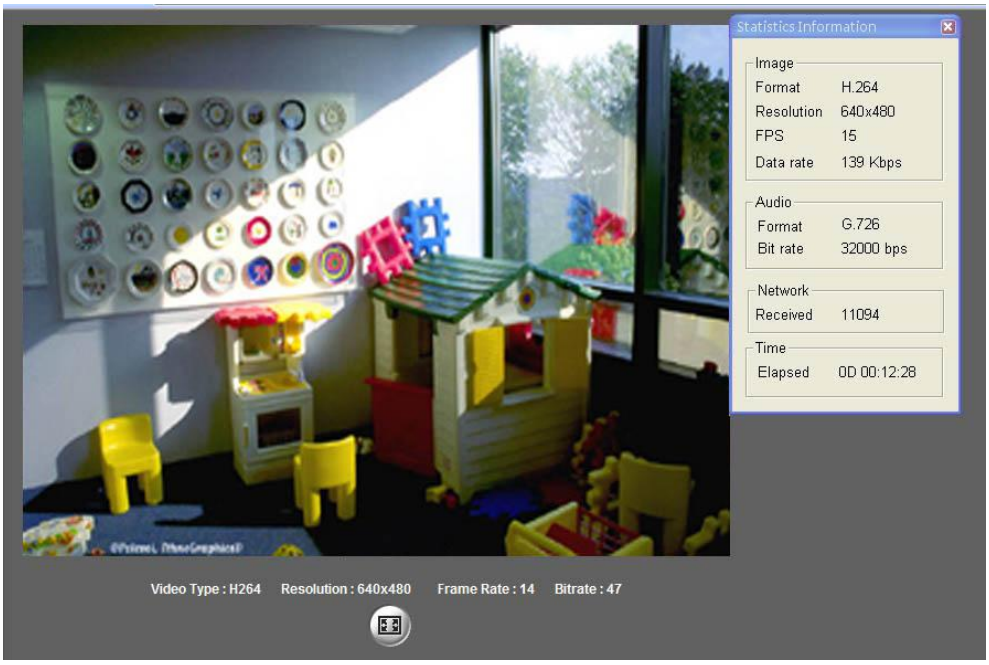
Volume

Click **Volume** to activate this function. There are two control bars for speaker and microphone volume respectively. Scroll these control bars to adjust the audio attribute. Click **Mute** to disable audio output.



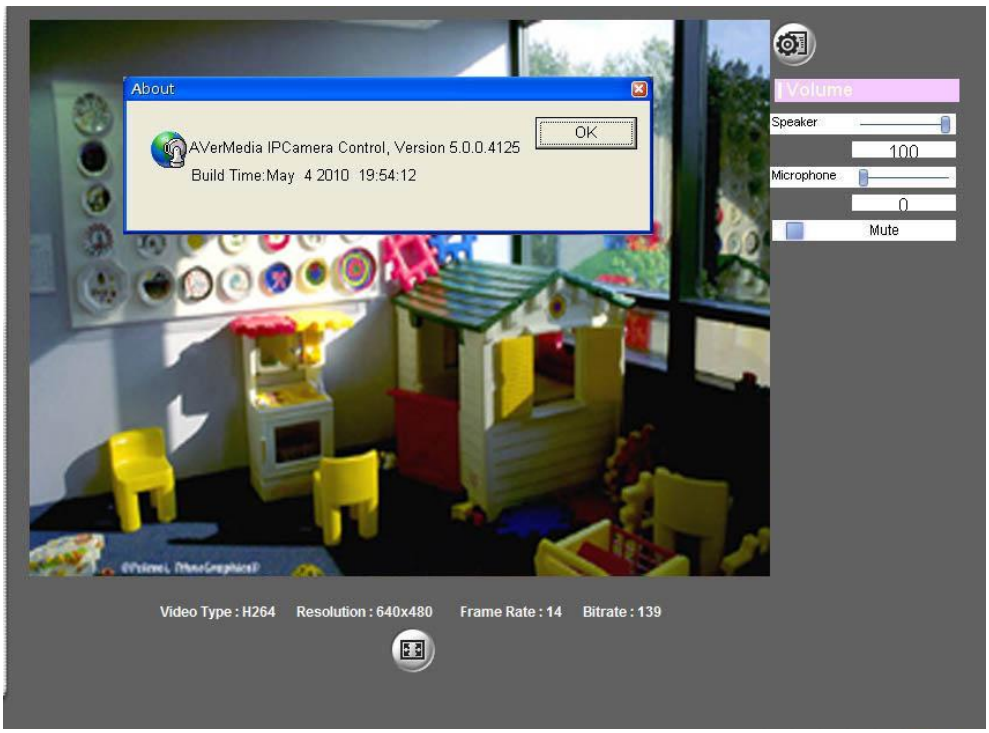
Statistics

Click **Statistics** to activate this function. A window will be pop-up to show the statistics information of the streaming status. **Note** this is the information between the device and your local PC.



About

Click **About** to show ActiveX information.



Administrating the Device

System Setting

<u>This function is only available for user logged into Network Camera as administrator</u>.

Click on each menu name to display its setting page.

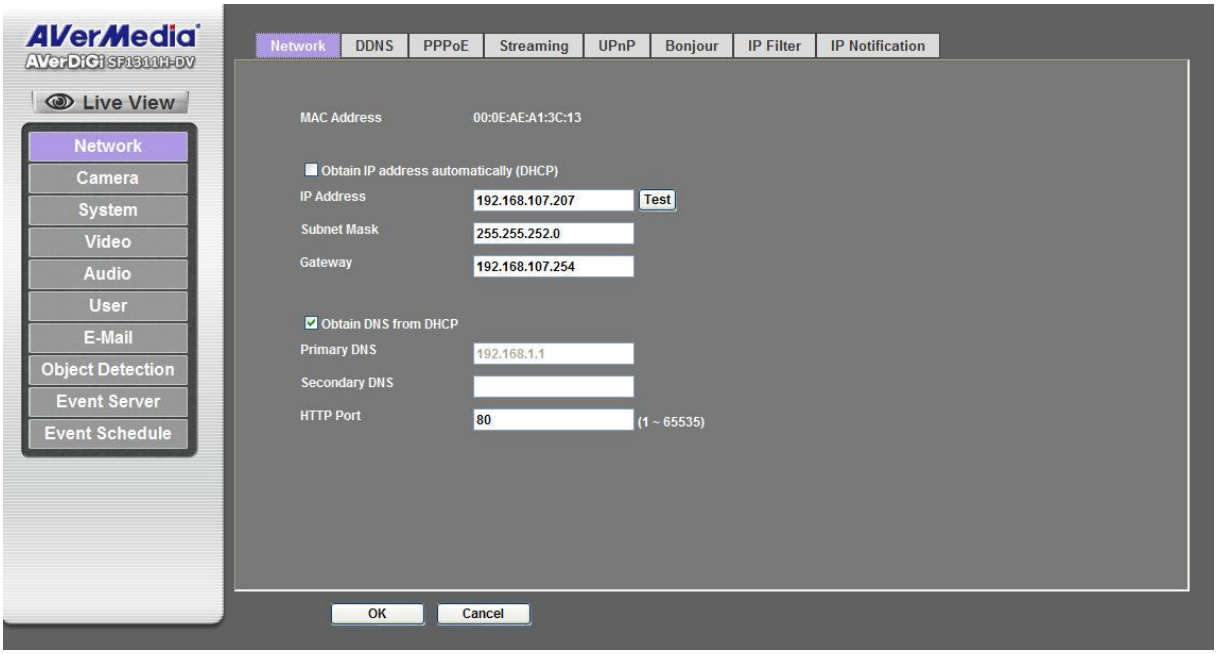
Item	Function
Network	Configure network settings such as DHCP, DDNS, 3GPP, PPPoE and UPnP
Camera	Adjust camera parameters, day & night, position, and set camera tour
System	Configure system information, date & time, maintenance, and view system log file.
Video	Configure bit rate and frame rate of video profiles
Audio	Configure audio parameters
User	Setup user name, password and login privilege
E-Mail	Setup E-Mail configuration
Object Detection	Setup object detection
Event Server	Setup FTP/TCP/HTTP/Samba server for event
Event Schedule	Configure the schedule while event triggered

Network: Configure Network Settings

Use this menu to configure the network to connect the device and the clients.

Network

This section provides the menu for connecting the device through Ethernet cable. Click "**OK**" to save and enable the setting.



- **MAC address:** Displays the Ethernet MAC address of the device. The MAC address is read only not changeable.

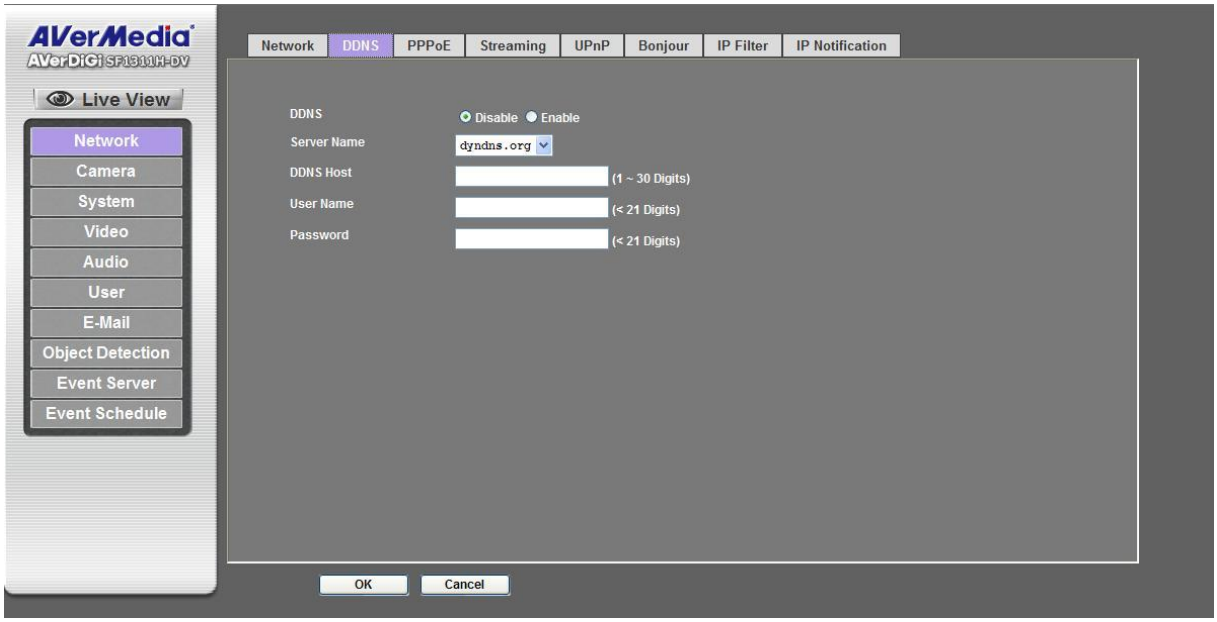
- **Obtain IP address automatically (DHCP):** DHCP: Stands for Dynamic Host Configuration Protocol. Enable this checked box when a DHCP server is installed on the network to issue IP address assignment. With this setting, the IP address is assigned automatically. If this device cannot get an IP address within limited tries, the default IP address is **192.168.10.30**.
- **IP Address, Subnet mask, and Gateway:** If you do not select **Obtain an IP address automatically**, then you need to enter these network parameters manually.
- **Obtain DNS from DHCP:** DNS stands for Domain Name System. Enable this checked box when a DHCP server is installed on the network and provide DNS service.
- **Primary DNS and Secondary DNS:** If you do not select **Obtain DNS from DHCP**, then you need to enter these parameters manually.
- **HTTP Port:** The device supports two HTTP ports. The first one is default port 80 and this port is fixed. This port is very useful for Intranet usage. The second HTTP port is changeable. Users could assign the second port number of http protocol, and the WAN users should follow the port number to login. If the http port is assigned as 8080 (not assigned as 80), users have to add the port number in back of IP address. For example: http://192.168.10.30:8080. Therefore, the user can access the device by either http://xx.xx.xx.xx or http://xx.xx.xx.xx:xxxx to access the device. If multiple devices are installed on the LAN and also required to be accessed from the WAN, then the **HTTP Port** can be assigned as the virtual server port mapping to support multiple devices.

DDNS service

DDNS stands for Dynamic Domain Name Server. Your Internet Service Provider (ISP) provides you at least one IP address which you use to connect to the Internet. The address you get may be static, meaning it never changes, or dynamic, it would be changed periodically. One of the possible solutions for the dynamic IP address problem comes in the form of a dynamic DNS service.

DDNS provides users the same hostname when their IP address is variable. There are several excellent DDNS services available on the Internet. One such service you can use is www.DynDNS.org. You'll need to register with the service and set up the domain name of your choice to begin using it. Please refer to the home page of the service for detailed instructions or refer to Appendix G for more information.

If your device is connected to xDSL directly, you might need this feature. However, if your device is behind a NAT router, you will not need to enable this feature. Most of the XDSL users will use dynamic IP addresses. If users want to set up a web or a FTP server, then the Dynamic Domain Name Server is necessary.



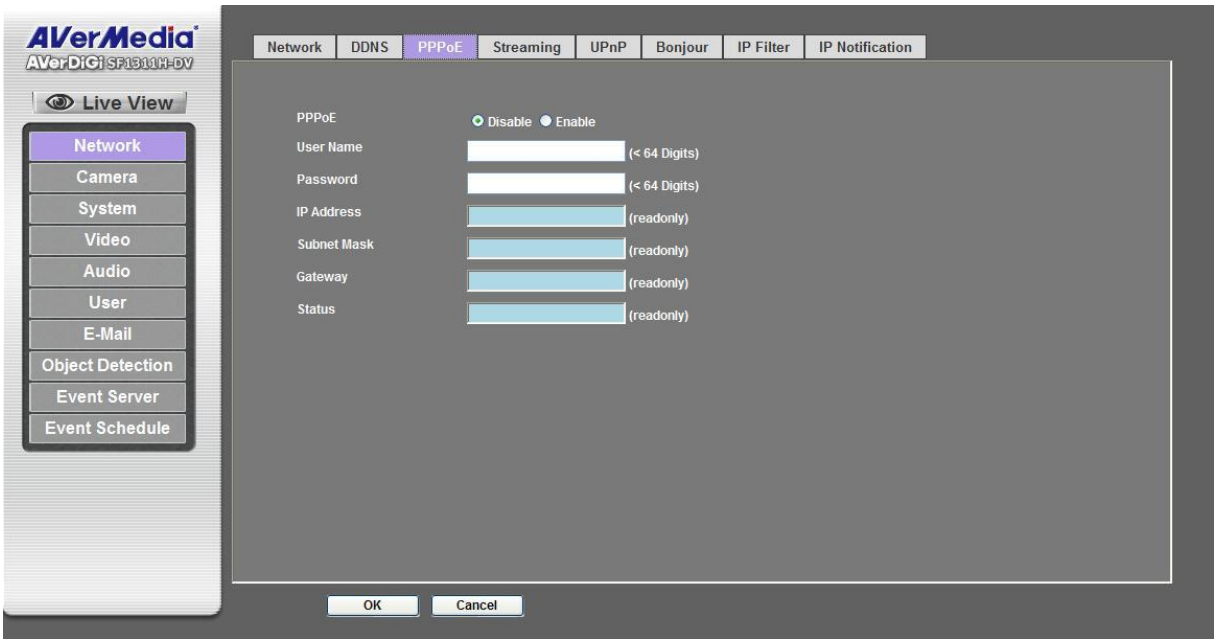
- **DDNS:** To enable or disable the DDNS service.
- **Server Name:** Choose the DDNS server.
- **DDNS Host:** The domain name is applied of this device.
- **User Name:** Enter the user name to log in DDNS.
- **Password:** Enter the password to log in DDNS.

PPPoE

It allows your device with xDSL or cable connects with broadband network directly, then your device can dial up and get a dynamic IP address.

The device can directly connect to the xDSL, however, it should be setup on a LAN environment to program the PPPoE information first, and then connect to the xDSL modem. Power on again, then the device will dial on to the ISP connect to the WAN through the xDSL modem.
The procedures are:

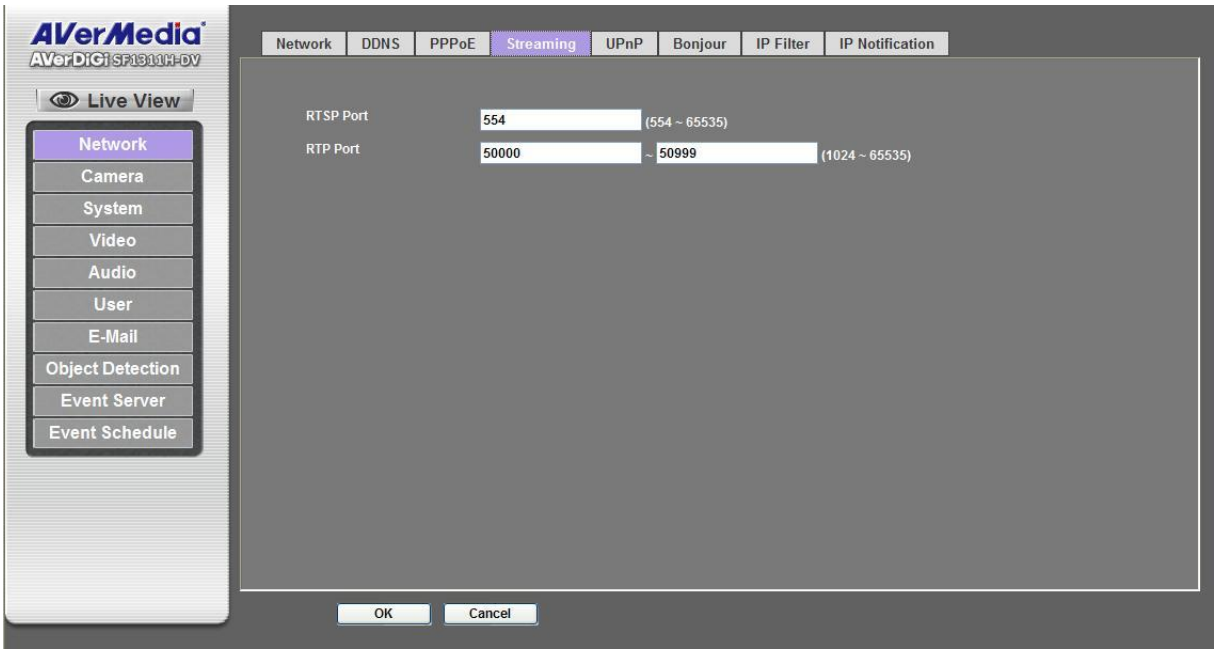
- Connect to a LAN by DHCP or Fixed IP
- Access the device, enter **Setting ➔ Network ➔ PPPoE** as below:



- **PPPoE:** To enable or disable the PPPoE service.
- **User name:** Type the user name for the PPPoE service which is provided by the ISP.
- **Password:** Type the password for the PPPoE service which is provided by the ISP.
- **IP address, Subnet mask, and Gateway (read only):** The IP information got from PPPoE server site.
- **Status:** The status of PPPoE connection.

Streaming

RTSP is a streaming control protocol and a starting point for negotiating transports such as RTP, multicast and unicast, and for negotiating codec. RTSP can be considered as a "remote control" for controlling the media stream delivered by a media server. RTSP servers typically use RTP as the protocol for the actual transport of audio/video data.

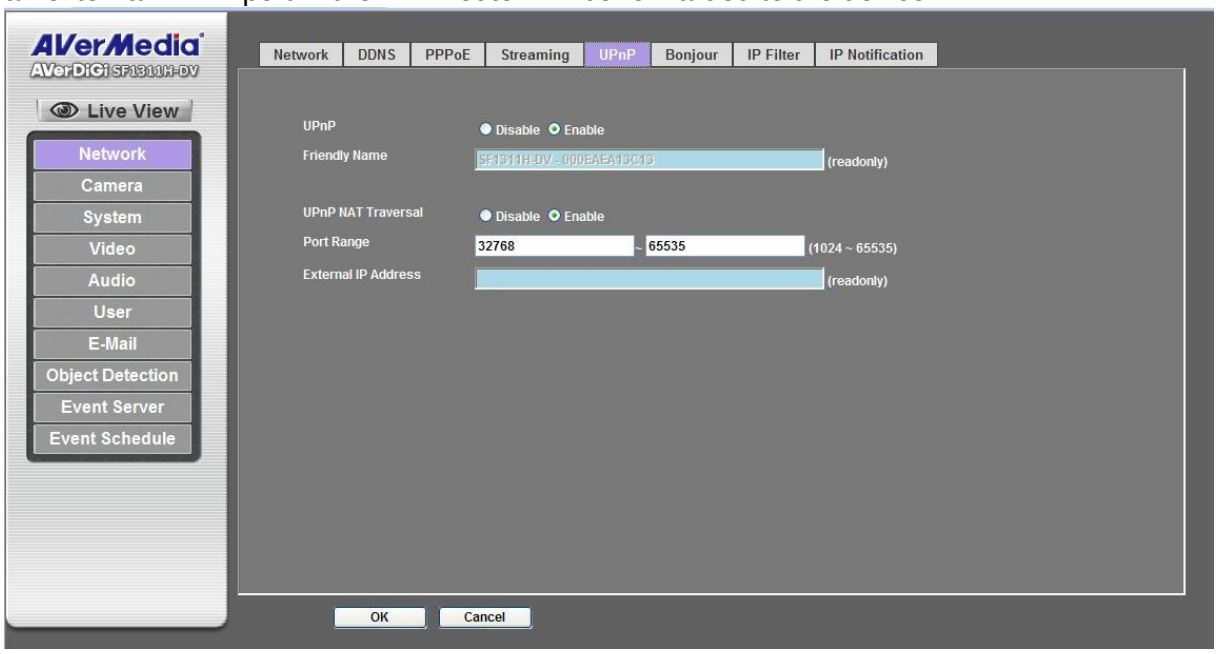


- **RTSP Port:** Choose the RTSP port. The RTSP protocol allows a connecting client to start a video stream. Enter the RTSP port number to use. The default value is 554.
- **RTP Port:** Specify the range of transmission port number of video stream. The default range is 50000 to 50999. User can specify a number between 1024 and 65535.

UPnP

UPnP is short for Universal Plug and Play, which is a networking architecture that provides compatibility among networking equipment, software, and peripherals. This device is an UPnP enabled Video Server. If your operating system is UPnP enabled, the device will automatically be detected and a new icon will be added to “My Network Places.” If you do not want to use the UPnP functionality, it can be disabled.

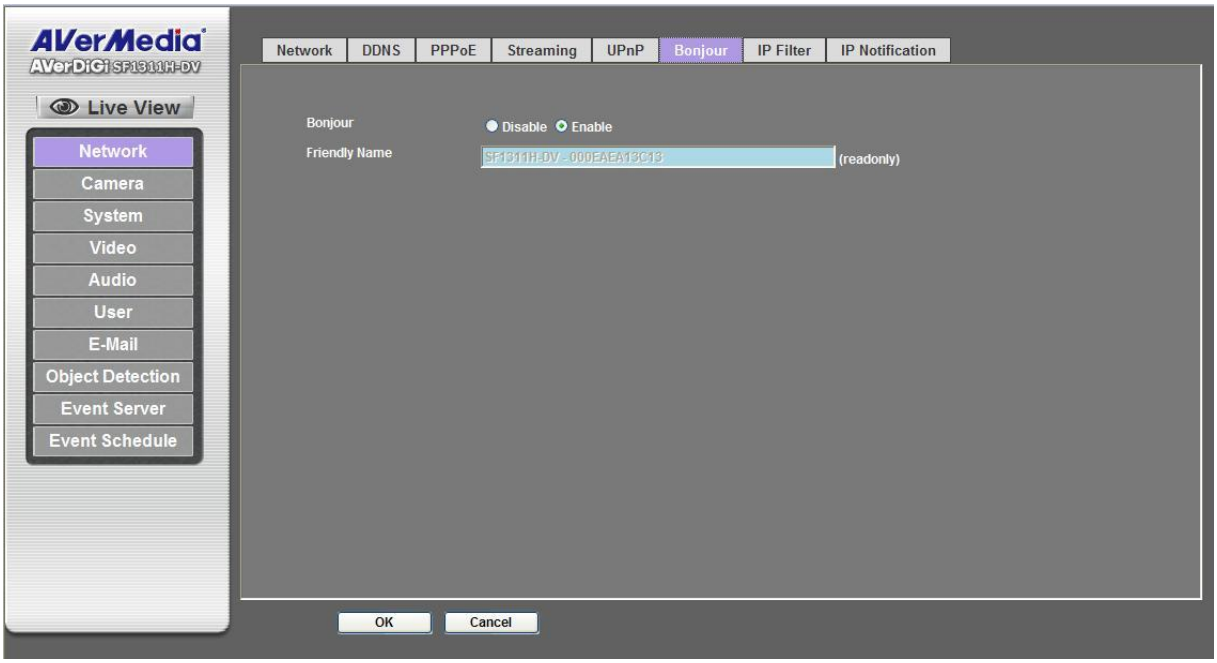
In addition, this device also provides UPnP IGD function for NAT traversal easily. Use NAT traversal when your device is located on an intranet (LAN) and you wish to make it available from the other (WAN) side of a NAT router. With NAT traversal properly configured, all HTTP traffic to an external HTTP port in the NAT router will be forwarded to the device.



- **UPnP:** To enable or disable the UPnP service.
- **Friendly Name:** Shows the friendly name of this device.
- **UPnP NAT Traversal:** When enabled, the device will attempt to configure port mapping in a NAT router on your network, using UPnP™. **Note** that UPnP™ must be enabled in the NAT router first.
- **Port Range:** The port range which will be opened in NAT router.
- **External IP address:** Show the IP address and port for WAN access through Internet. If NAT traversal is configured successfully, user can use this IP address and port to access this device. The external IP address is not shown in case NAT traversal function is failed.

Bonjour Setting

It can support both Safari and Firefox.



- **Bonjour:** To enable or disable the bonjour function.
- **Friendly Name:** It will be detected automatically.

Safari:

Open Safari Browser → Bookmark → Bonjour → Double click the desired IP Camera → Enter Username and Password → Finished

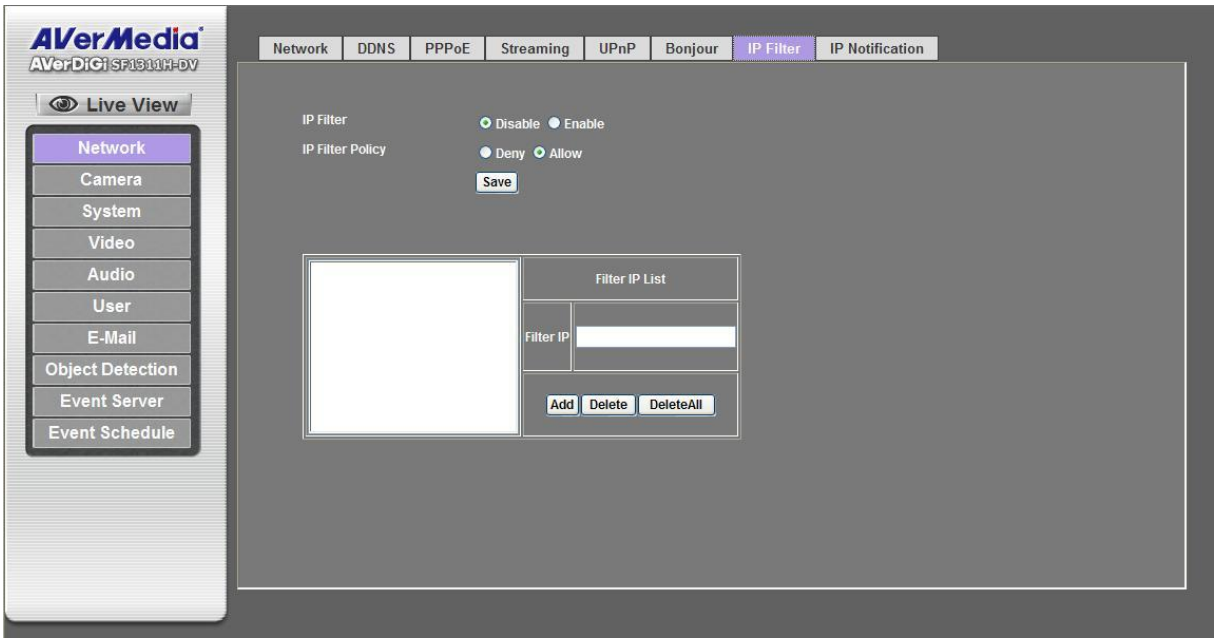
Firefox:

Open Firefox Browser → Tool → Bonjour Browser → Double click the desired IP Camera → Enter the “Host name“ in the URL bar (Ex. http://SF1311H.local) → Enter Username and Password → Finished

[Note] Please install “ BonjourFoxy ” in your computer before using Bonjour Browser in Firefox.

IP Filter

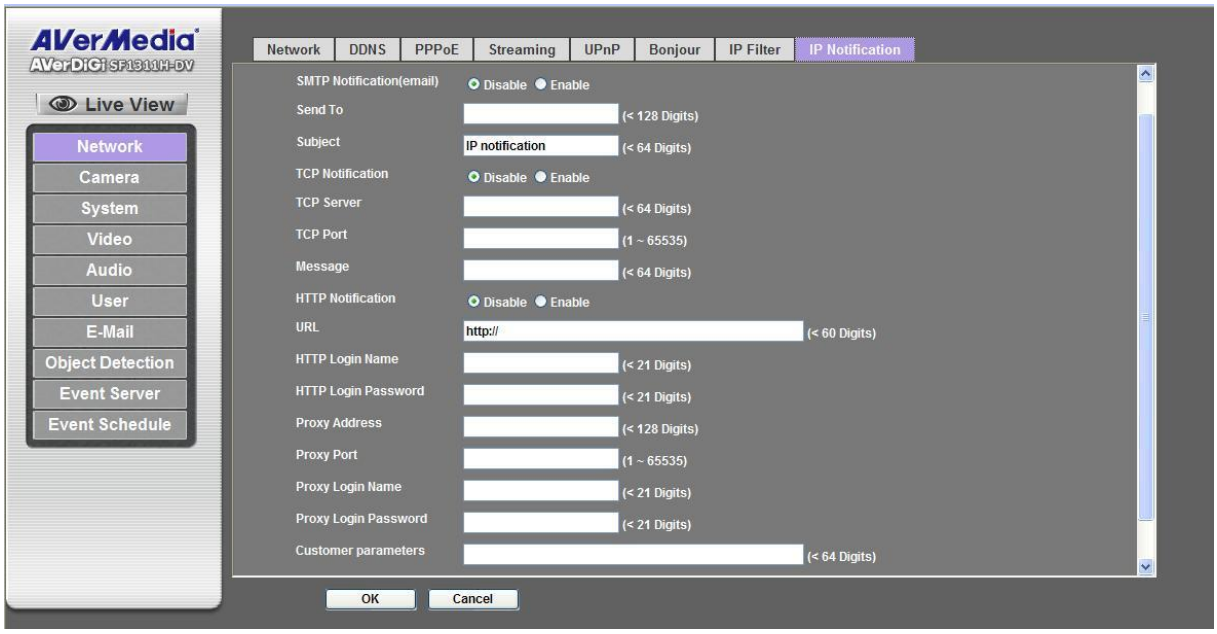
You can define which IP addresses are allowed.



- **IP Filter:** To enable or disable the IP filter function.
- **IP Filter Policy:** Choose the filter policy denying/allowing.

IP Notification

In case the IP address is changed, system is able to send out an email to alert someone if the function is enabled.



- **SMTP Notification (e-mail):** Please make sure to enable this function and then filled in "**Send to**" and "**Subject**".
  - ***Send To:*** Enter the receiver's e-mail address.
  - ***Subject:*** Enter the title of the E-mail.
- **TCP Notification:** Please make sure to enable this function and then filled in "**TCP server**", "**TCP Port**", and "**Message**".
  - ***TCP Server:*** Enter the server name or the IP address of the TCP server.

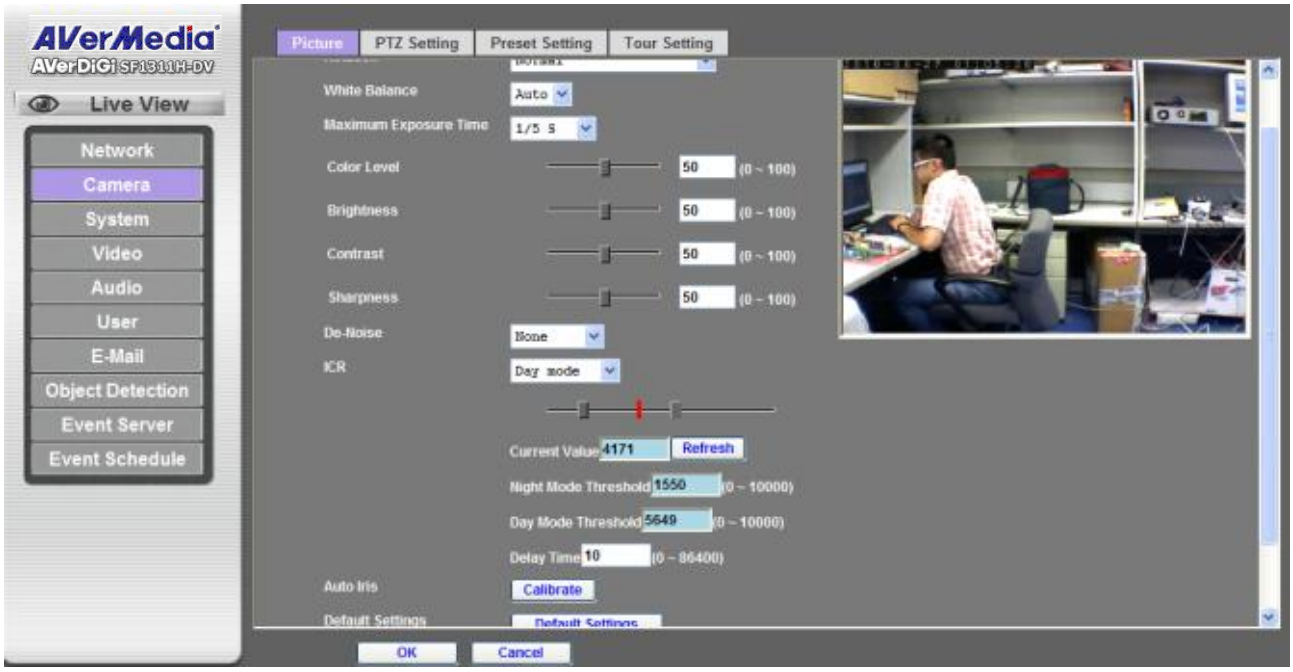
- ***TCP Port:*** Set port number of TCP server.
- ***Message:*** The message will be sent to FTP server.

- **HTTP Notification:** If enable this function, then the fields below need to be filled.
  - ***URL:*** Enter the server name or the IP address of the HTTP server.
  - ***HTTP Login Name:*** Enter the user name for the HTTP server.
  - ***HTTP Login Password:*** Enter the password for the HTTP server.
  - ***Proxy Address:*** Enter the server name or the IP address of the HTTP Proxy.
  - ***Proxy Port:*** Set port number of Proxy.
  - ***Proxy Login Name:*** Enter the user name for the HTTP Proxy.
  - ***Proxy Login Password:*** Enter the password for the HTTP Proxy.
  - ***Custom parameter:*** User can set specific parameters to HTTP server.
  - ***Message:*** The message will be sent to HTTP server.

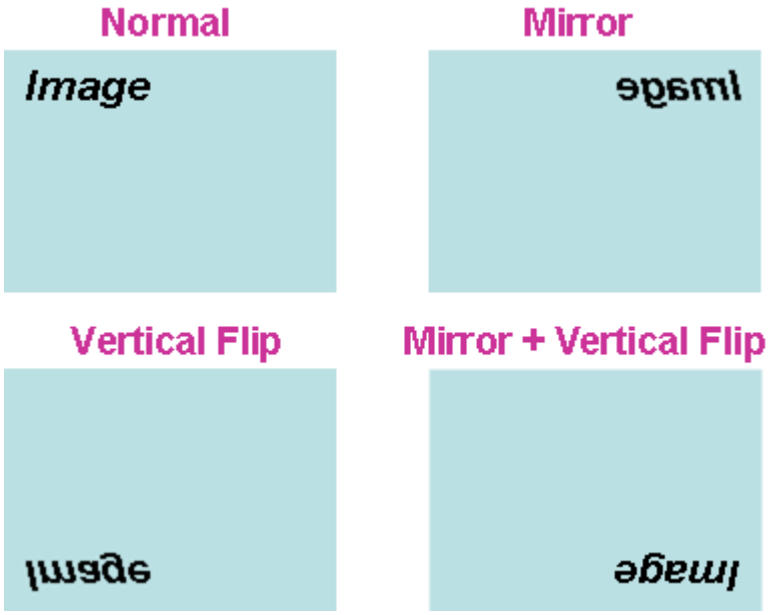
Camera: Adjust Camera Parameters

Use this menu to set the functions of the camera parameters of the device.

Picture



- **Rotation:** Turn the “Mirror” and “Vertical Flip” On or OFF. The image will be overturned as below.



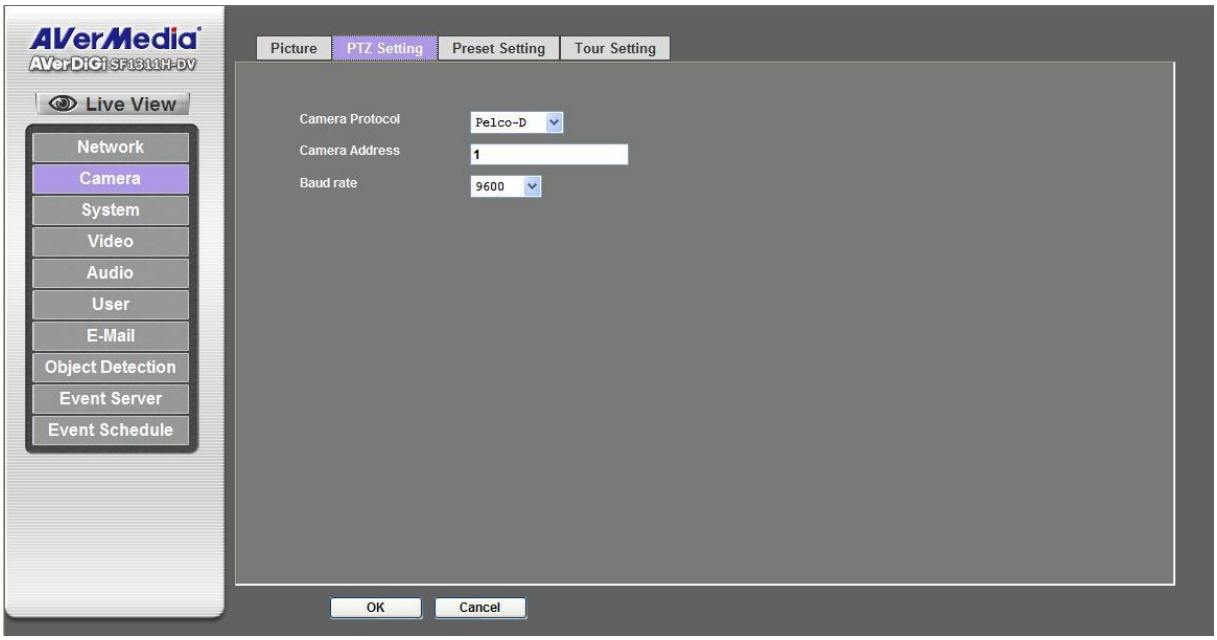
- **White Balance:**
  - ***Auto:*** Adjust the white balance automatically.
  - ***Hold:*** Hold the white balance.
- **Maximum Exposure Control:**
  - ***Auto:*** Adjust the internal gain automatically.
  - ***Hold:*** Hold the internal gain.
- **Color Level:** The larger value, the more colorful image.
- **Brightness:** The larger value, the brighter image.
- **Contrast:** The larger value, the more contrast image.

- **Sharpness:** The larger value, the sharper image.
- **De-Noise:** De-Noise can remove or lower unwanted noise and preserve fine details and edges.
- **ICR:** ICR stands for **IR Cut Filter Removable** that is to estimate the intensity of the light and switch the IP camera into the Day or Night mode. The function can set to automatically or setting estimate value manually.
  - ***Current Value:*** The current Intensity value of the light. The red mark on the scroll bar represents the current value of light's intensity.
  - ***Night Mode Threshold:*** Set a threshold value for IP camera to switch to Night mode. The darker gray mark on the scroll bar represents the Night Mode Threshold value.
  - ***Day Mode Threshold:*** Set a threshold value for IP camera to switch to Day mode. The lighter gray mark on scroll bar represents the Day Mode Threshold value.

    [Note] 1. When the Current Value is great than Day Mode Threshold value, the IP camera will switch to Day mode.
    2. When the Current Value is less than Night Mode Threshold value, the IP camera will switch to Night mode.
    3. When the Current Value is between Night and Day Mode Threshold value, the IP camera will stay in current mode.
  - ***Delay Time:*** A time gap period before mode switching.
- **Auto IRIS:** Auto iris lens allows the camera to adjust to get the best picture in the given lighting conditions
- **Default Settings:** Set all value back to factory default values.

PTZ Setting

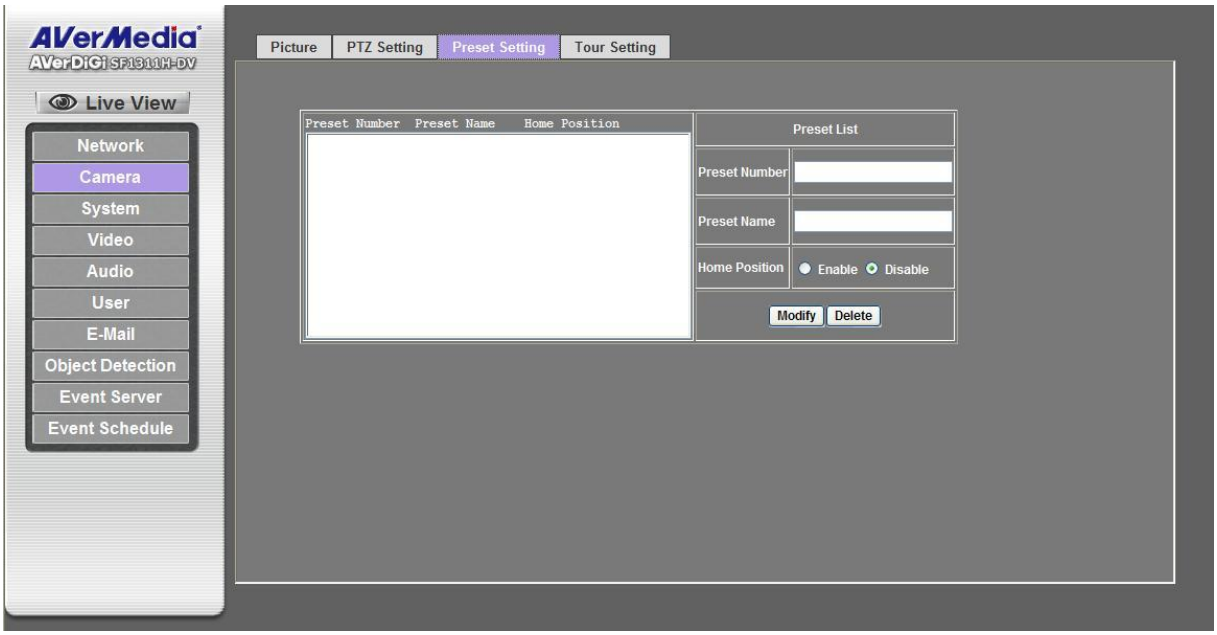
[Note] If user needs to change these parameters, please check and set value properly for both, network module and P/T scanner.



- **Camera Protocol:** This device can connect to a PTZ camera or speed dome camera and controls them thru RS485 interface.
- **Camera Address:** This is the camera ID set in PTZ camera or speed dome camera.
  [Note] Please **DO NOT** changes the default value if unnecessary. If so, user needs to check and set value properly for both sides.
- **Baud rate:** This is the communication speed between network module and P/T scanner.

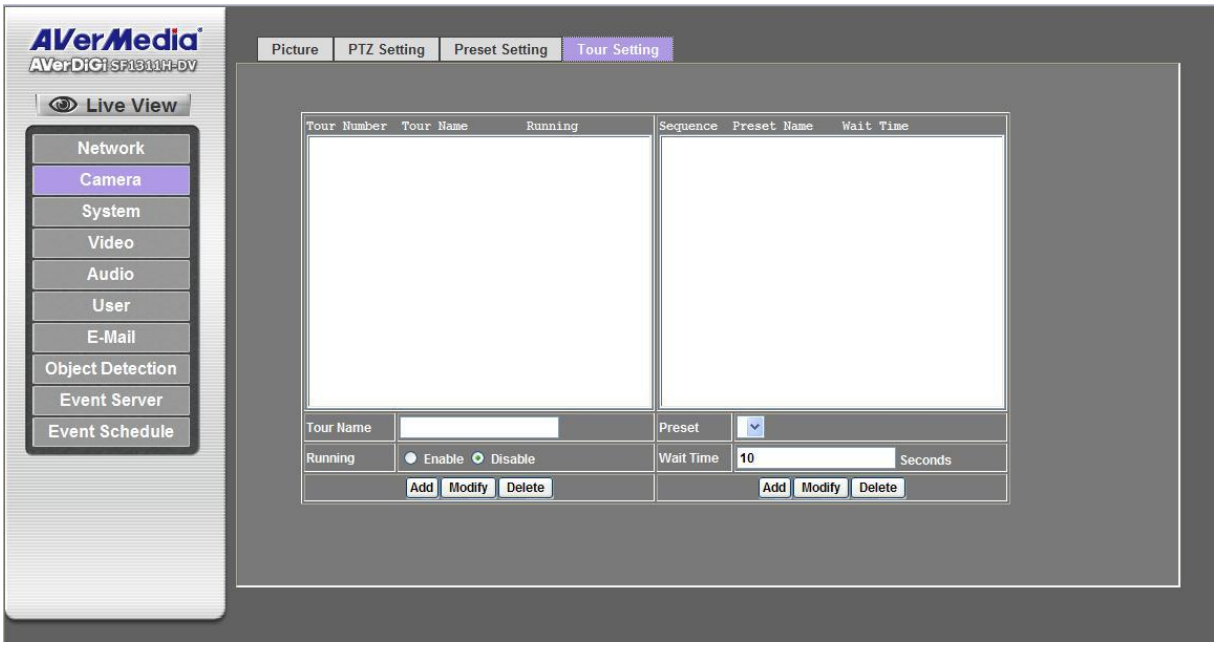
Preset Setting

This page provides the edit tool to modify or delete the “Preset Setting” item by item.



Tour Setting

Up to 128 positions can be pre-set, and the camera can be programming to move to the preset position sequentially. To use the camera tour function, user must preset several camera positions first.

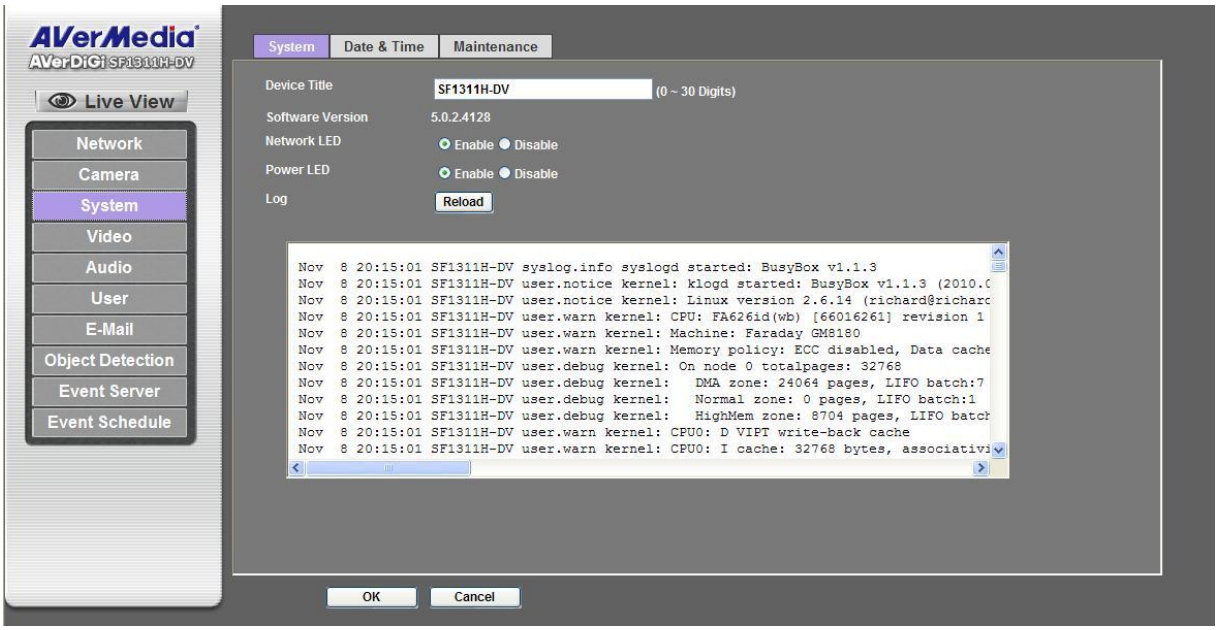


- **Tour Name:** The group name of the sequence of camera tour. The maximum number of camera tour is 16.
- **Running:** Enable or disable this camera tour.
- **Preset:** Set the sequence of the tour. Maximum 16 points can be assigned. The selected preset position is added in the sequence list from 1 to 16.
- **Wait Time:** Type a period of time during which the camera is to stay at each preset point, between 0 to 36000 seconds.

System: Configure and Maintain System

Use this menu to perform the principal settings of the device.

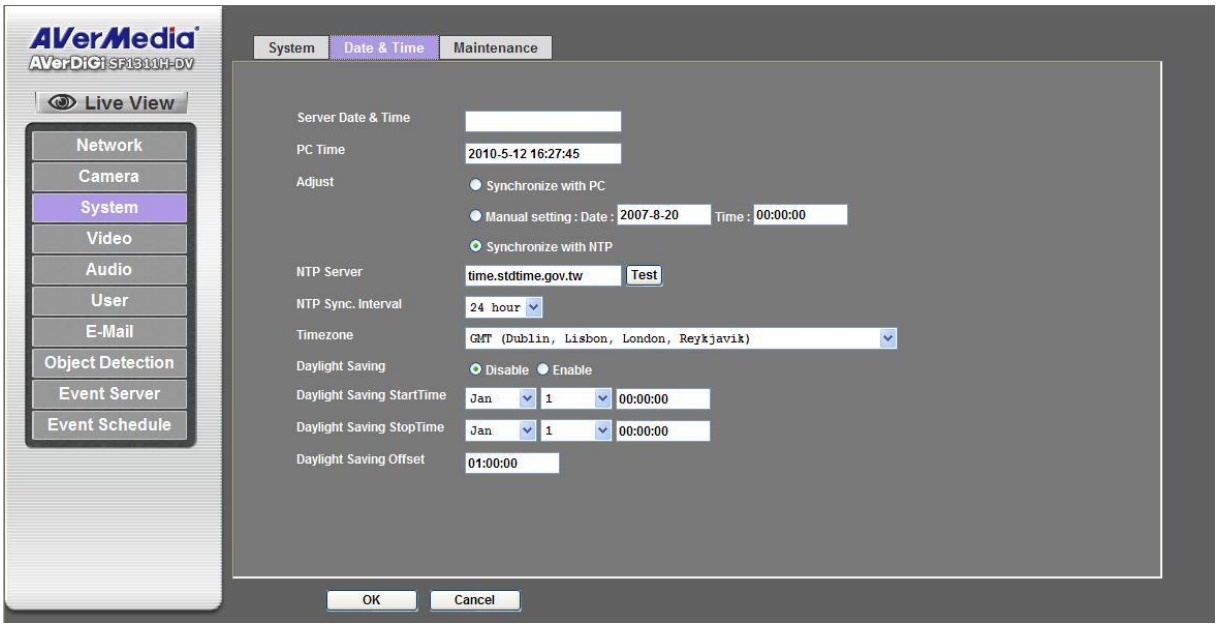
System


AVerMedia
AVerDiGi SF1311H-DV
Live View
Network
Camera
System
Video
Audio
User
E-Mail
Object Detection
Event Server
Event Schedule
System
Date & Time
Maintenance
Device Title
SF1311H-DV
(0 ~ 30 Digits)
Software Version
5.0.2.4128
Network LED
Enable
Disable
Power LED
Enable
Disable
Log
Reload
Nov 8 20:15:01 SF1311H-DV syslog.info syslogd started: BusyBox v1.1.3
Nov 8 20:15:01 SF1311H-DV user.notice kernel: klogd started: BusyBox v1.1.3 (2010.
Nov 8 20:15:01 SF1311H-DV user.notice kernel: Linux version 2.6.14 (richard@richar
Nov 8 20:15:01 SF1311H-DV user.warn kernel: CPU: FA626id(wb) [66016261] revision 1
Nov 8 20:15:01 SF1311H-DV user.warn kernel: Machine: Faraday GM8180
Nov 8 20:15:01 SF1311H-DV user.warn kernel: Memory policy: ECC disabled, Data cache
Nov 8 20:15:01 SF1311H-DV user.debug kernel: On node 0 totalpages: 32768
Nov 8 20:15:01 SF1311H-DV user.debug kernel: DMA zone: 24064 pages, LIFO batch:7
Nov 8 20:15:01 SF1311H-DV user.debug kernel: Normal zone: 0 pages, LIFO batch:1
Nov 8 20:15:01 SF1311H-DV user.debug kernel: HighMem zone: 8704 pages, LIFO batch
Nov 8 20:15:01 SF1311H-DV user.warn kernel: CPU0: D VIPT write-back cache
Nov 8 20:15:01 SF1311H-DV user.warn kernel: CPU0: I cache: 32768 bytes, associativi
OK
Cancel

- **Device Title:** You can enter the name of this unit. The information will be shown on IPWizard II once the device is found.
- **Software Version:** This information shows the software version of the device.
- **Network LED:** To turn on or off Network LED.
- **Power LED:** To turn on or off Power LED.
- **Log:** User can check the system log information of the device, including the *Main Info*, *Appended Info*, *Operator IP*, *and so on …*
- **Reload:** User can refresh the log information of the device.

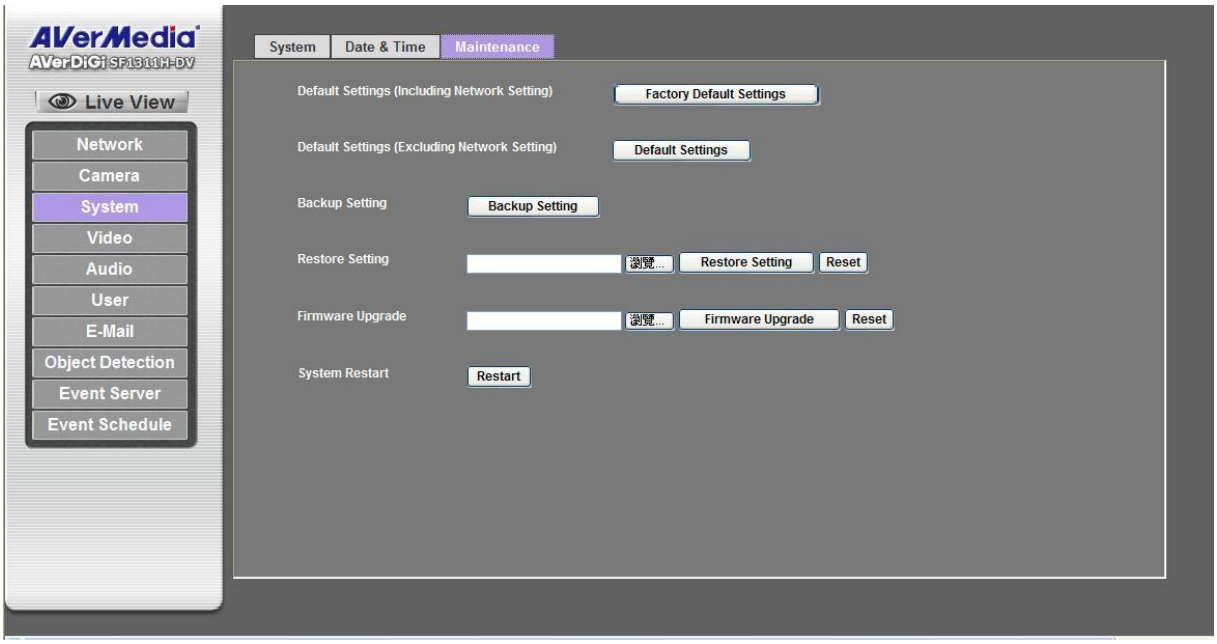
Date & Time

You can setup the device or make it synchronized with PC or remote NTP server. Also, you may select your time zone in order to synchronize time locally.



- **Server Date & Time:** Displays the date and time of the device.
- **PC Time:** Displays the date and time of the connected PC.
- **Adjust**
  - ***Synchronize with PC:*** Click this option to enable time synchronization with PC time.
  - ***Manual setting:*** Click this option to set time and date manually.
  - ***Synchronize with NTP:*** Click this option if you want to synchronize the device's date and time with NTP server (Network Time Protocol).
- **NTP Server:** Type the host name or IP address or domain name of the NTP server.
- **NTP Sync. Interval:** Select an interval between 1 and 23 hours at which you want to adjust the device's time referring to NTP server
- **Timezone:** Set the time difference from Greenwich Mean Time in the area where the device is installed.
- **Daylight Saving:** Disable or enable the daylight saving adjustment.
  - ***Daylight Saving StartTime:*** Set a beginning time for daylight saving.
  - ***Daylight Saving StopTime:*** Set an ended time for daylight saving.
  - ***Daylight Saving Offset:*** Set the time difference during daylight saving period.

Maintenance



- **Default Settings (Including the Network Setting):** Recall the device hard factory default settings. Note that click this button will reset all device's parameters to the factory settings (including the IP address).
- **Default Settings (Except the Network Setting):** The unit is restarted and current settings are reset to factory default values except the network setting.
- **Backup Setting:** This button will backup all of the current system parameters.
- **Restore Setting:** Click the "**Browse"** button to select the backed up files and then click the "**Restore Setting"** button. The settings will be restored to the previous saved configuration.
- **Firmware Upgrade:** The device supports new firmware upgrade (the software that controls the operation in the device). Please contact your dealer for the latest version if necessary.
- **System Restart:** The device is restarted without changing any of the network settings. It means the IP address of the device will not change after firmware upgrade.

Download the latest firmware file from our website or your dealer. Unzip this firmware file to binary file and store it into your PC. Then follow the steps as below carefully:

1. Close all other application programs which are not necessary for firmware update.
2. **Make sure that only you access this device while firmware updating.**
3. Disable Motion Detection function.
4. Click "**Browse**" button. Select the Firmware binary file.
   [Note] Please make sure that the Firmware only applies to this device, once update, it will be burned into FLASH ROM of system.
5. Once the firmware file was selected, click "**Firmware Upgrade**" button.
6. The upgrade progress information will be displayed. Once the uploading process completed, the device will reboot the system automatically.
7. Please wait for timer countdown, and then you can use IPWizard II to search the device again.

WARNING

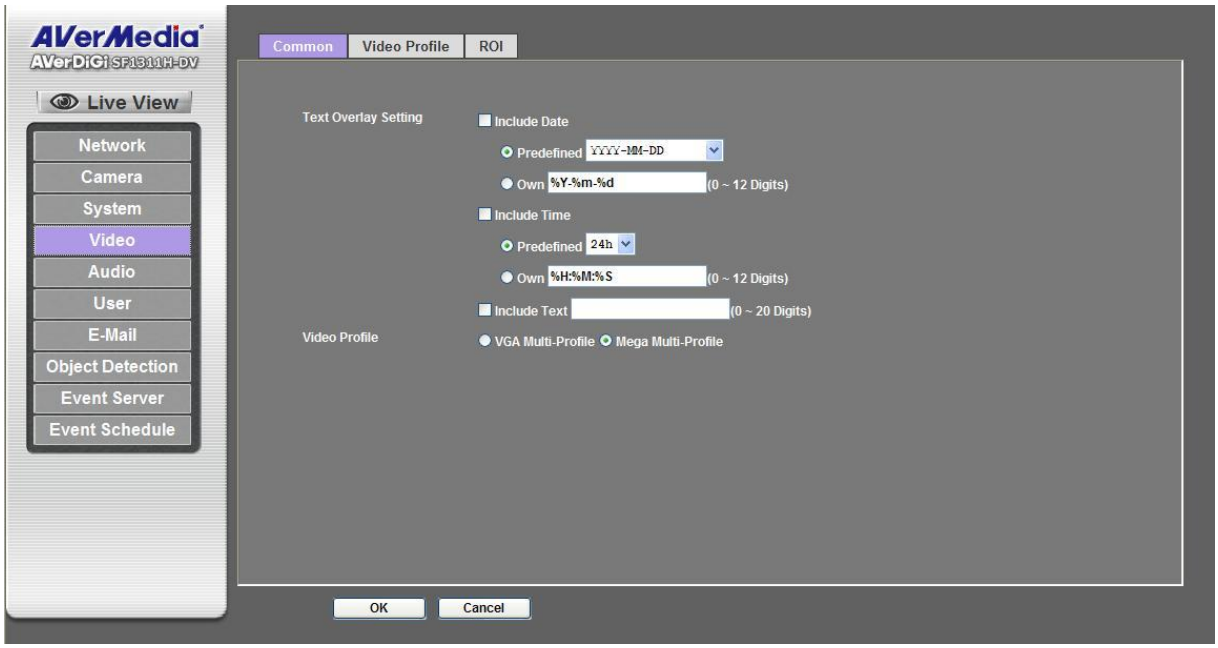
- The download firmware procedure cannot be interrupted. If the power and/or network connection are broken during the download procedure, it might possibly cause serious damage to the device.

- Strongly suggest that **DO NOT** upgrade firmware via Wireless LAN due to high error rate possibly and don't allow any other clients to access this unit during updating procedure.
- Be aware that you should not power off during updating the firmware and wait for finish message.
- Furthermore, the firmware upgrade procedure is risky and do not try to upgrade new firmware if it's not necessary.

Video: Configure Profile

This device provides 2 modes of video profile. The first one is Mega Multi-Profile mode which supports video resolution up to Mega-pixel. However the maximum frame rate of this mode is up to 15fps only. The second one is VGA Multi-Profile mode which supports video resolution up to VGA but frame rate can be up to 30fps. User only can select either Mega Multi-Profile or VGA Multi-Profile mode to operate the camera. Changing video profile mode will reboot system.

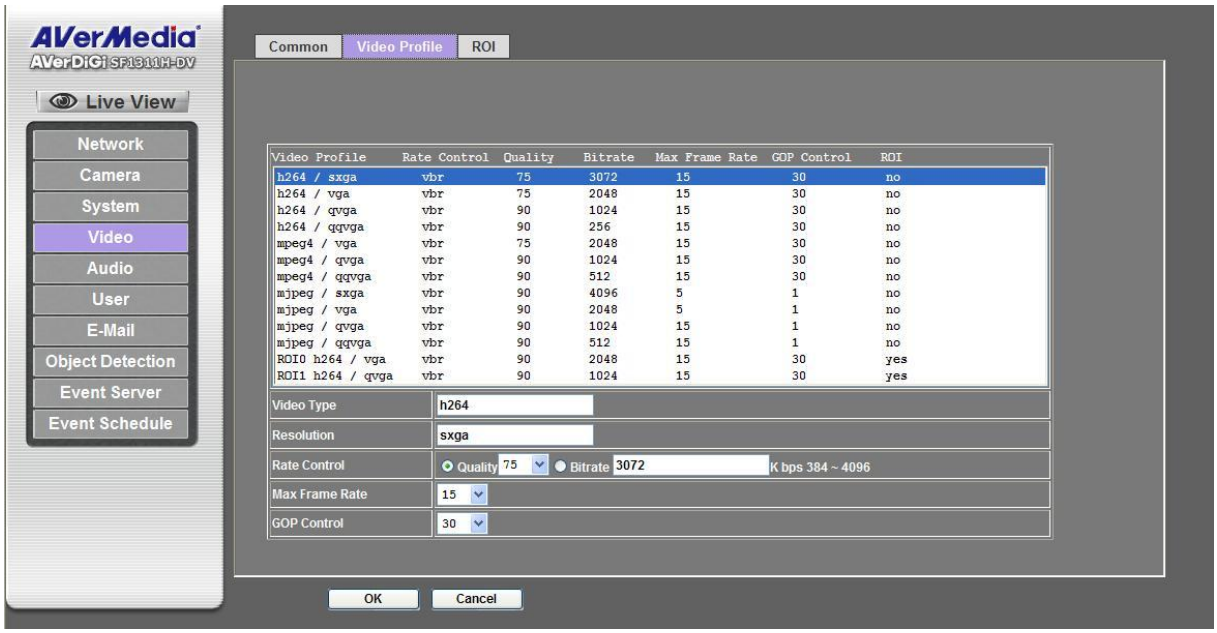
Common



- **Text Overlay Setting:** There are some important information can be embedded into image, including date, time, and text.
- **Video Profile:** User can only choose either VGA Multi-Profile or Mega Multi-Profile mode. VGA Multi-Profile mode can provide H.264, MPEG-4, and M-JPEG streams up to VGA resolution simultaneously. On the other hand, Mega Multi-Profile can provide H.264/Mega and JPEG/Mega two more streams simultaneously.

Video Profile

Select the video profile from list to configure.


AVerMedia
AVerDiGi SF1311H-DV
Live View
Network
Camera
System
Video
Audio
User
E-Mail
Object Detection
Event Server
Event Schedule
Common
Video Profile
ROI
Video Profile Rate Control Quality Bitrate Max Frame Rate GOP Control ROI
h264 / sxga vbr 75 3072 15 30 no
h264 / vga vbr 75 2048 15 30 no
h264 / qvga vbr 90 1024 15 30 no
h264 / qqvga vbr 90 256 15 30 no
mpeg4 / vga vbr 75 2048 15 30 no
mpeg4 / qvga vbr 90 1024 15 30 no
mpeg4 / qqvga vbr 90 512 15 30 no
mjpeg / sxga vbr 90 4096 5 1 no
mjpeg / vga vbr 90 2048 5 1 no
mjpeg / qvga vbr 90 1024 15 1 no
mjpeg / qqvga vbr 90 512 15 1 no
ROI0 h264 / vga vbr 90 2048 15 30 yes
ROI1 h264 / qvga vbr 90 1024 15 30 yes
Video Type
h264
Resolution
sxga
Rate Control
Quality 75
Bitrate 3072
K bps 384 ~ 4096
Max Frame Rate
15
GOP Control
30
OK
Cancel

✧ H264

- **Resolution:** There are four resolutions in this profile: SXGA(1280x1024), VGA(640x480), QVGA(320x240) and QQVGA(160x128).
- **Rate Control:** Defines the rate control method of this profile. There are two options: Constant Bit Rate (CBR) or Variable Bit Rate (VBR). For CBR, the video bit rate would be fixed. User can set the desired bit rate to match the limitation of bandwidth. For VBR, user could choose the quality level. The quality level is between 1 and 100. The higher value can reach the better quality but it will also need higher bandwidth.
- **Max Frame Rate:** Defines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second as possible. User need to set reasonable frame rate with video quality under the limited bandwidth.
- **GOP Control:** Defines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame(I-frame) every 30 frames.

✧ MPEG-4

- **Resolution:** There are three resolutions in this profile: VGA(640x480), QVGA(320x240) and QQVGA(160*128).
- **Rate Control:** Defines the rate control method of this profile. There are two options: Constant Bit Rate (CBR) or Variable Bit Rate (VBR). For CBR, the video bit rate would be fixed. User can set the desired bit rate to match the limitation of bandwidth. For VBR, user could choose the quality level. The quality level is between 1 and 100. The higher value can reach the better quality but it will also need higher bandwidth.
- **Max Frame Rate:** Defines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second as possible. User need to set reasonable frame rate with video quality under the limited bandwidth.
- **GOP Control:** Defines the Intra/Inter-frame (I/P) ratio of this profile. For example, set the GOP to 30, then the video stream will have one Intra-frame(I-frame) every 30 frames.

✧ M-JPEG

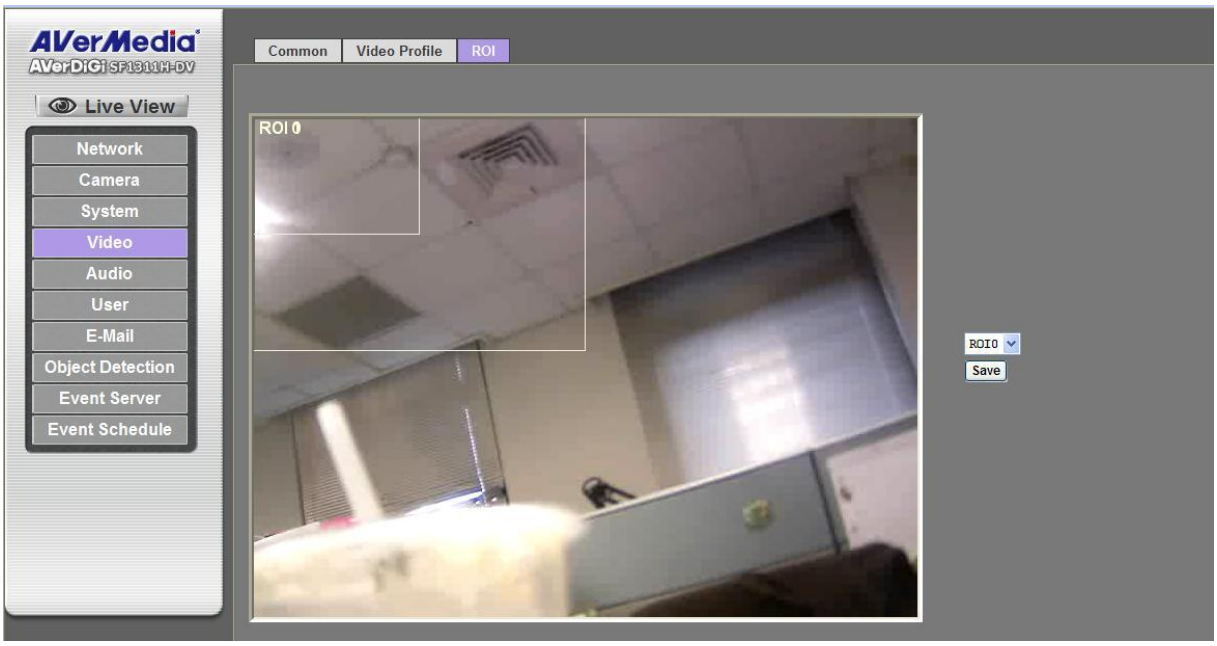
- **Resolution:** There are four resolutions in this profile: SXGA(1280x1024), VGA(640x480), QVGA(320x240) and QQVGA(160x128).
- **Rate Control:** The quality level is between 1 and 100. The higher value can reach the better

quality but of course will consume higher bandwidth.

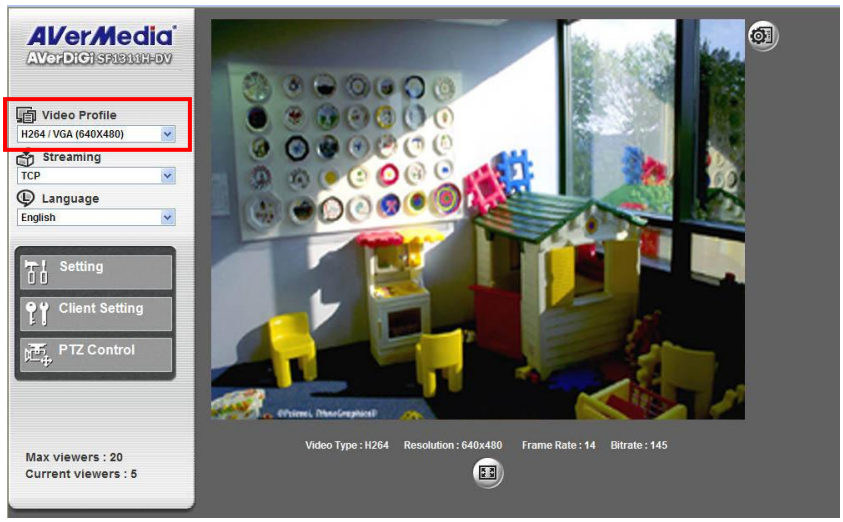
- **Max Frame Rate:** Defines the targeted frame rate of this profile. For example, set the frame rate to 15 fps, then the image will be updated for 15 frames per second as possible. User need to set reasonable max frame rate versus video quality under the limited bandwidth.

ROI

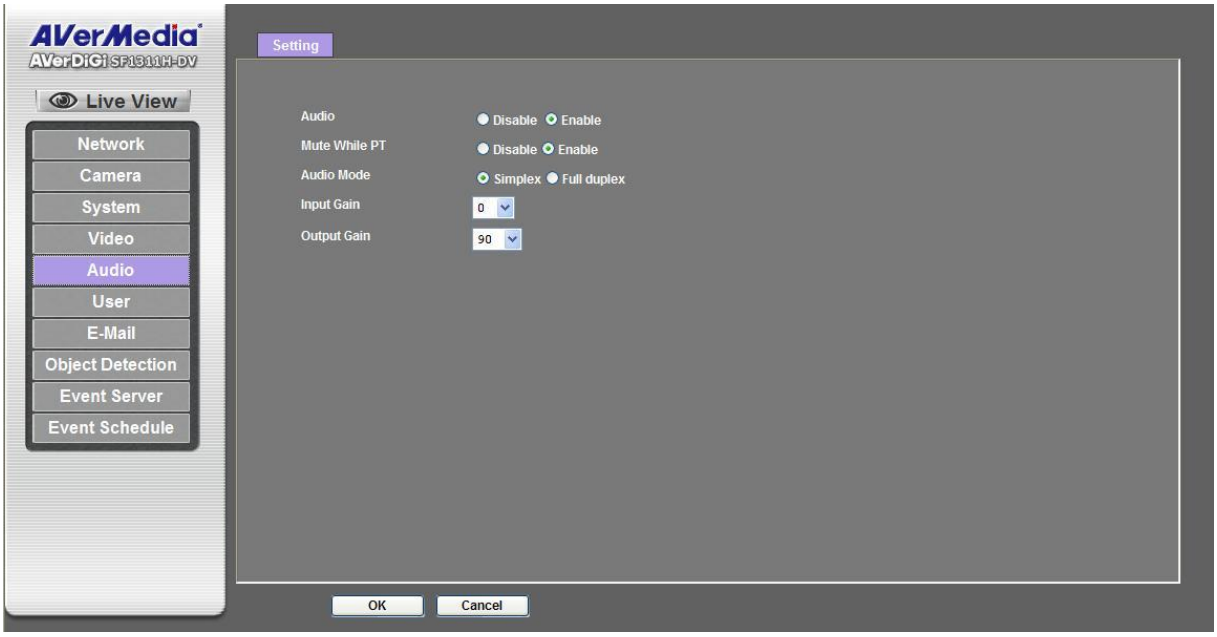
ROI stands for Region on Interest. There are 2 ROI settings can be set.



1. Select **ROI0** or **ROI1** from drop-down list.
2. Using mouse to drag the frame on screen to select the ROI area.
3. Click **Save** to save the setting.
4. The ROI setting can be selected to view from *Video Profile* in Live View Mode.



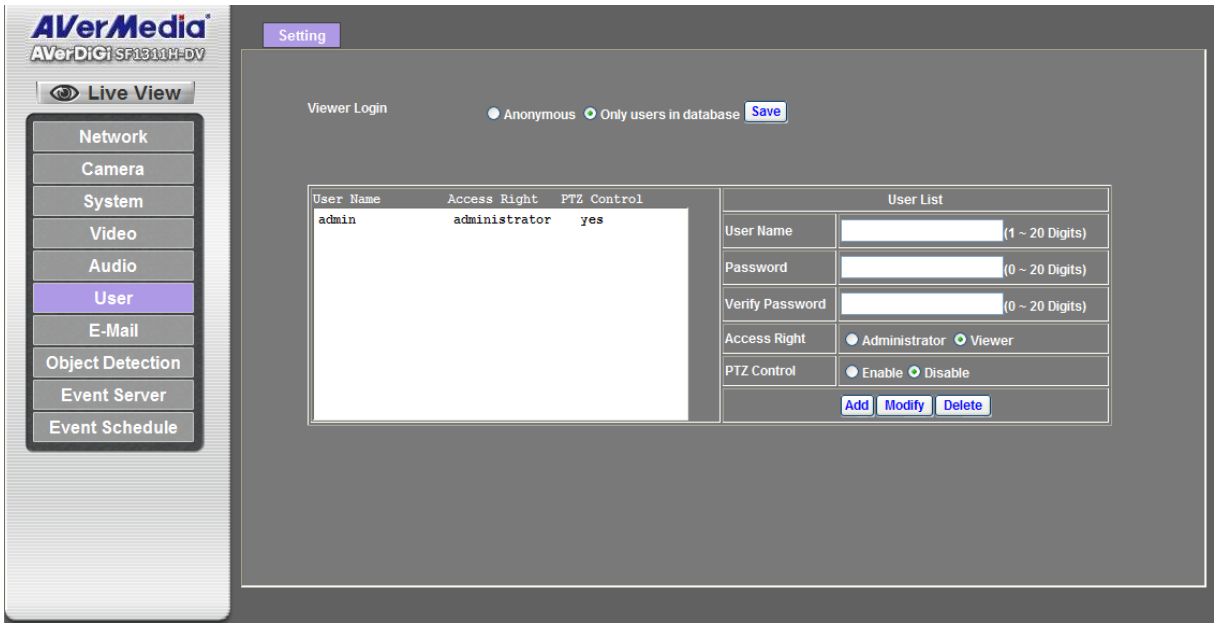
Audio: Audio Parameters



- **Audio:** To enable or disable audio function
- **Mute While PT:** To enable or disable audio while pan-tilt.
- **Audio Mode:** To select Simplex or Full duplex (2-way audio) mode
- **Input Gain:** To adjust gain of input audio
- **Output Gain:** To adjust gain of output audio

User: Manage User Name, Password and Login Privilege

Use this menu to add, modify, or delete the usernames and passwords of the Administrator and viewer.



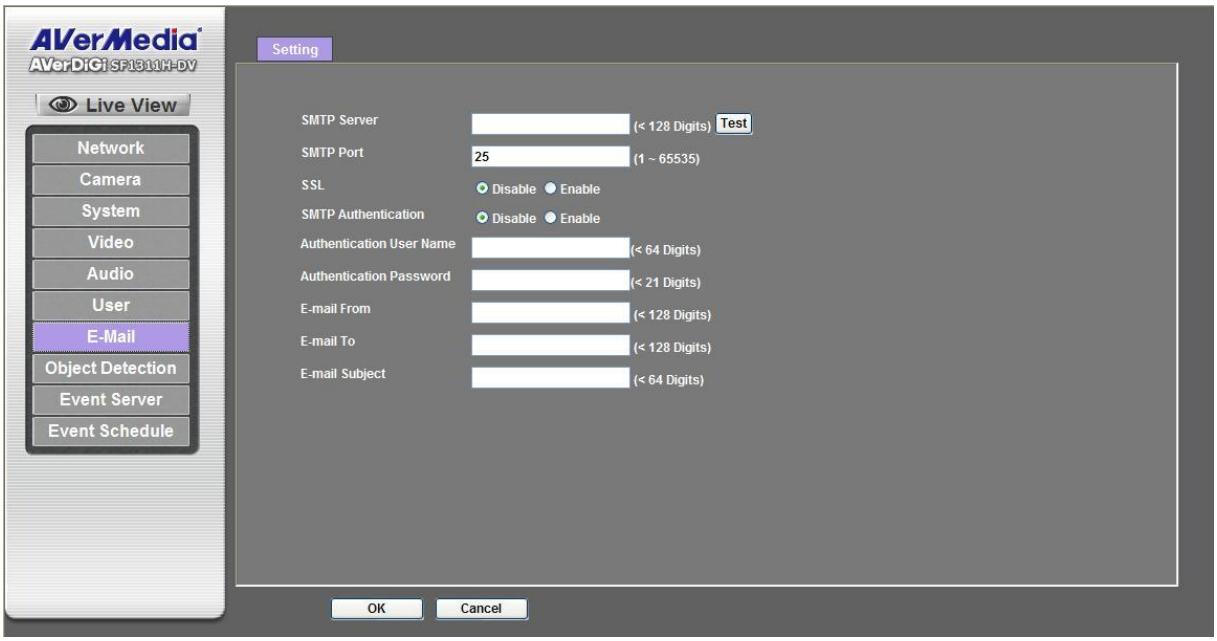
- **Viewer Login:** Select “Anonymous” to allow any one viewing the video once connected. Otherwise, only users in database can view the video after login.
- **Access Right:** Administrator can access every function in this device. However, viewers only can view the video and access limited function.
- **PTZ Control:** Enable/disable the PTZ control right of the user account.
- **Add, Modify, and Delete** button**:** Managing the user’s account of viewer user.

Add a User Account:

1. Select **Access Right** – Administrator or Viewer.
2. Enter **User Name**.
3. Enter **Password**.
4. Re-Enter password to confirm in **Verify Password** column.
5. Click **Add** button.
6. To modify existing account, select the account from account list and click **Modify** button.
7. To delete existing account, select the account from account list and click **Delete** button.

E-Mail: Setup E-Mail Configuration

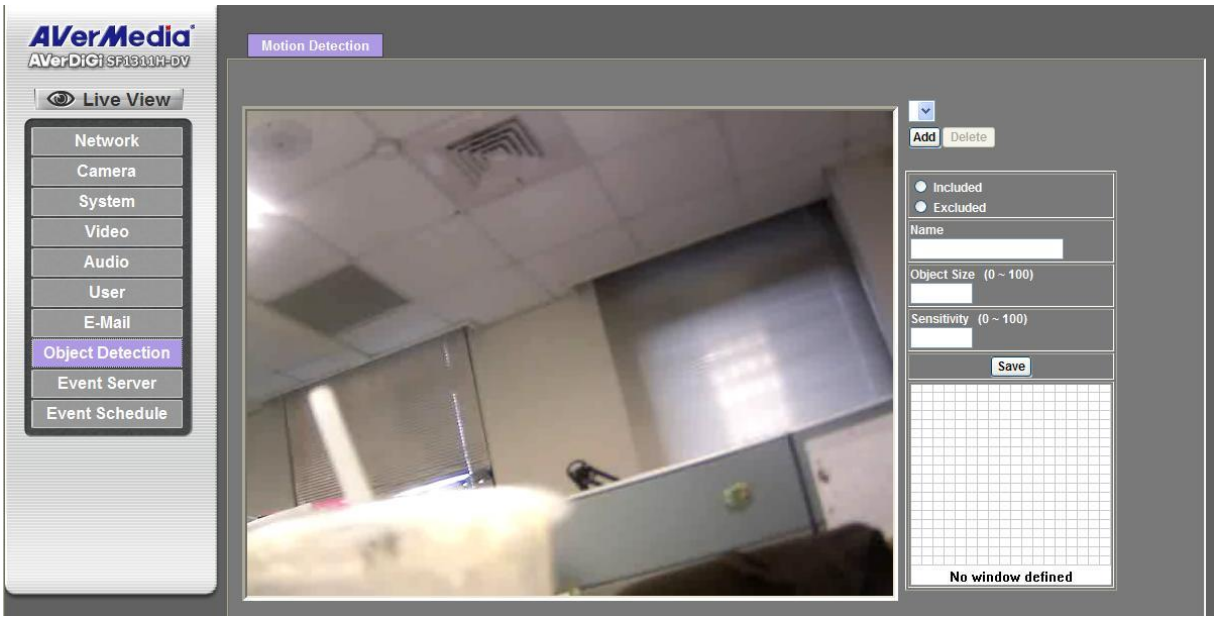
You may setup SMTP mail parameters for further operation of Event Schedule. That's, if users want to send the alarm message out, it will need to configure parameters here and also add at least one event schedule to enable event triggering.



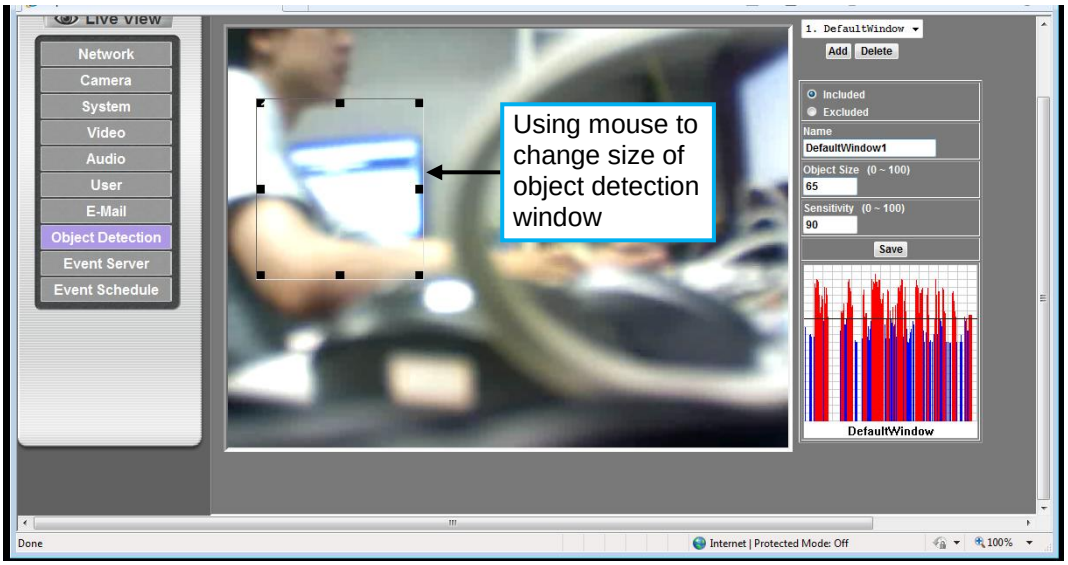
- **SMTP Server:** Enter SMTP server name or the IP address of the SMTP server.
- **Test:** Send a test mail to mail server to check the account that user has entered is available.
- **SMTP Port:** Set port number of SMTP service.
- **SMTP Authentication:** Select the authentication required when you send an e-mail.
  - ***Disable:*** Send e-mail without authentication.
  - ***Enable:*** Send e-mail with authentication.
- **Authentication User name:** Enter the user name for the SMTP server if **Authentication** is **Enable**.
- **Authentication Password:** Enter the password for the SMTP server if **Authentication** is **Enable**.
- **E-mail To:** Enter the receiver's e-mail address.
- **E-mail From:** Enter the sender's E-mail address. This address is used for reply e-mails.
- **E-mail Subject:** Enter the subject/title of the e-mail.

Object Detection: Setup Object Detection

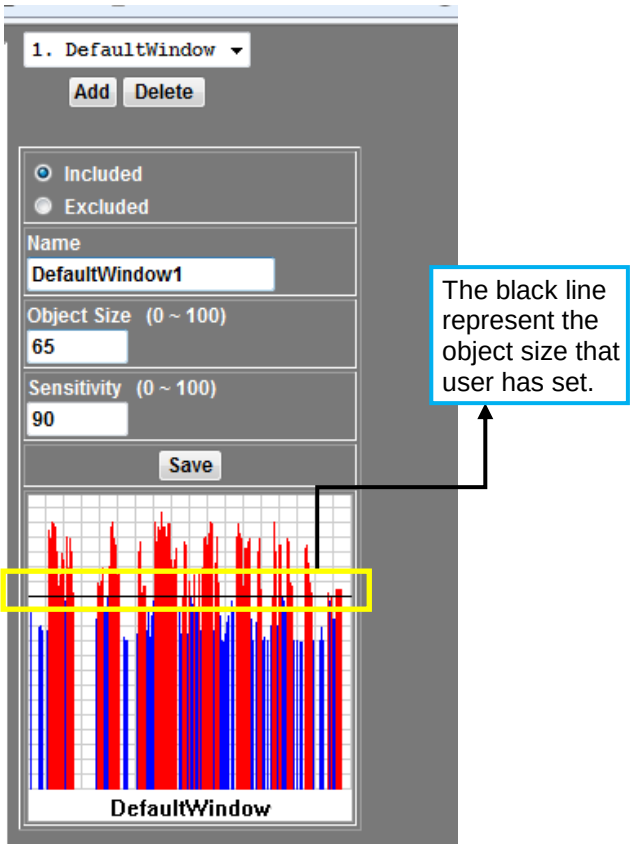
Use this menu to specify motion detection window 1 to window 10 and set the conditions of detection while observing a captured image.



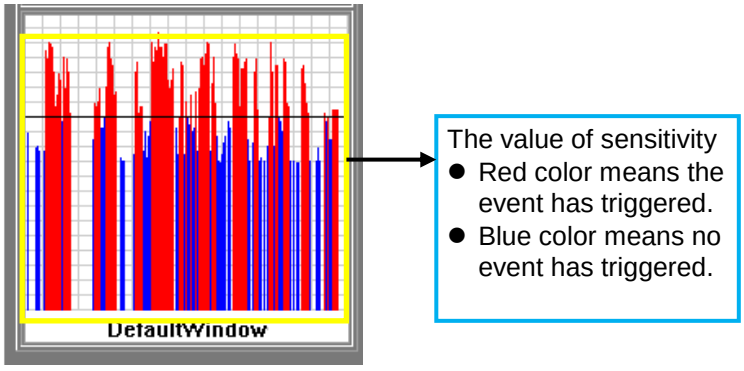
- **Add and Delete:** To add or delete the motion windows. User can specify up to 10 object detection windows (Included and Excluded) to monitor the video captured by IP camera. By dragging mouse on the image, you can change the position and size of the selected motion window accordingly.



- **Included or Excluded Window:** These windows can be specified as Included or Excluded type.
  - ***Included*** windows target specific areas within the whole video image.
  - ***Excluded*** windows define areas within an Include window that should be ignored (areas outside Include windows are automatically ignored).
- **Name:** Name of the specified motion window.
- **Object Size:** Defines the object size of motion detection. The bigger object size, the lower motion trigger frequency. In the other hand, the smaller object size will be easier to trigger the motion action. The black line in the window represents the object size value that user has set. Once, the value of sensitivity is over the black line, the motion event will be triggered.



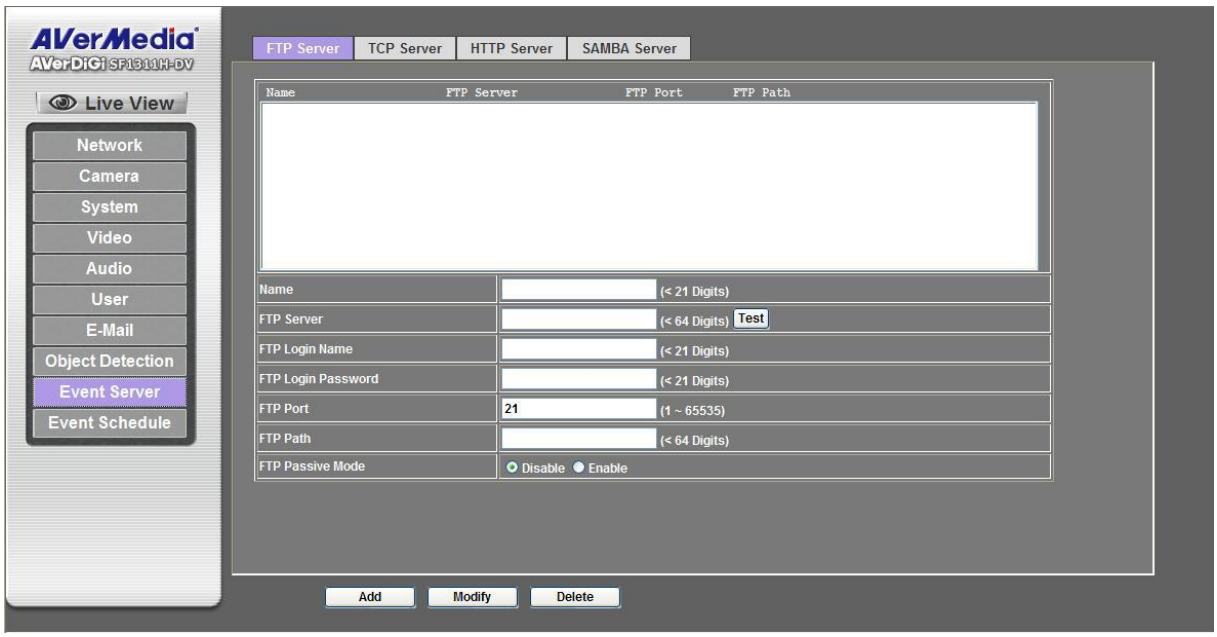
- **Sensitivity:** Defines the sensitivity value of motion detection. The higher value will be more sensitive. When the system has detected the sensitive value, the values will display in window (see below illustrate). If the value of sensitivity is over the black line (object size value), the motion event will be triggered. If the value of sensitivity is below the black line (object size value), the motion event will not be triggered.


DefaultWindow
The value of sensitivity
Red color means the event has triggered.
Blue color means no event has triggered.

Event Server: Setup FTP/TCP/HTTP/SAMBA server

FTP Server

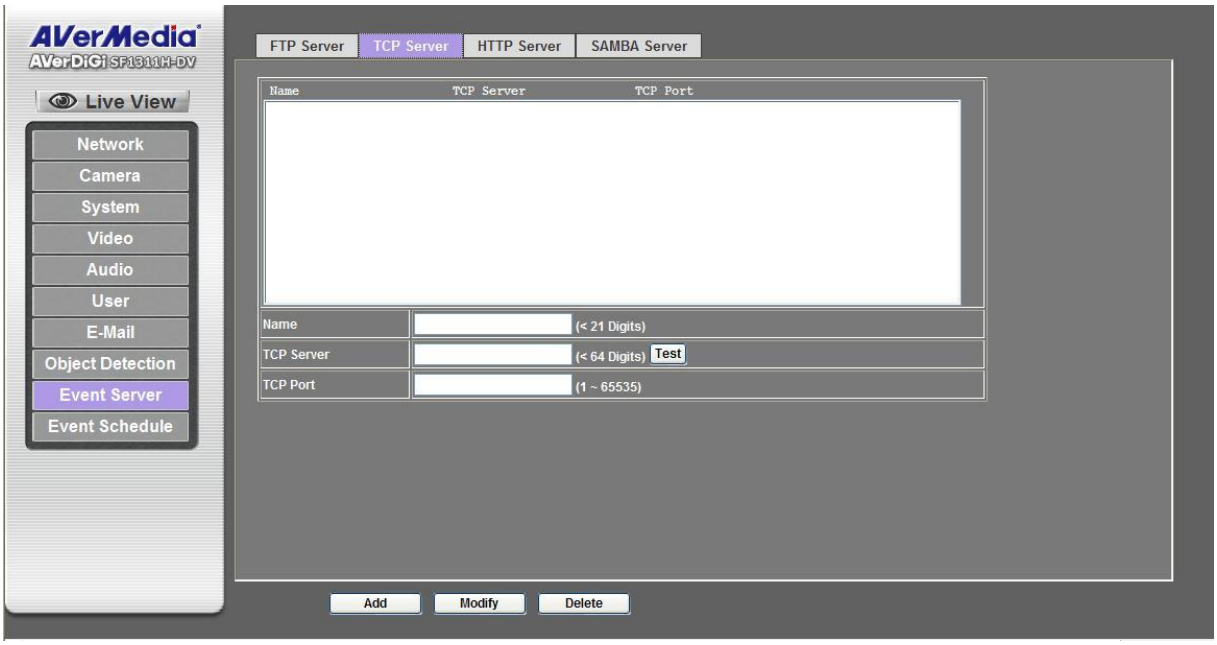
You may setup FTP parameters for further operation of Event Schedule. That's, if users want to send the alarm message or video file to an FTP server, it will need to configure parameters here and also add at least one event schedule to enable event triggering as SMTP.



- **Name:** User can specify multiple FTP paths as wish. Therefore, user needs to specify a name for each FTP setting.
- **FTP Server:** Enter the server name or the IP address of the FTP server.
- **Test:** Check the FTP server whether this account is available or not.
- **FTP Login name:** Enter the user name for the FTP server.
- **FTP Login Password:** Enter the password for the FTP server.
- **FTP Port:** Set port number of FTP service.
- **FTP Path:** Set working directory path of FTP server.
- **FTP Passive Mode:** Select passive or active mode connecting to FTP server.

TCP Server

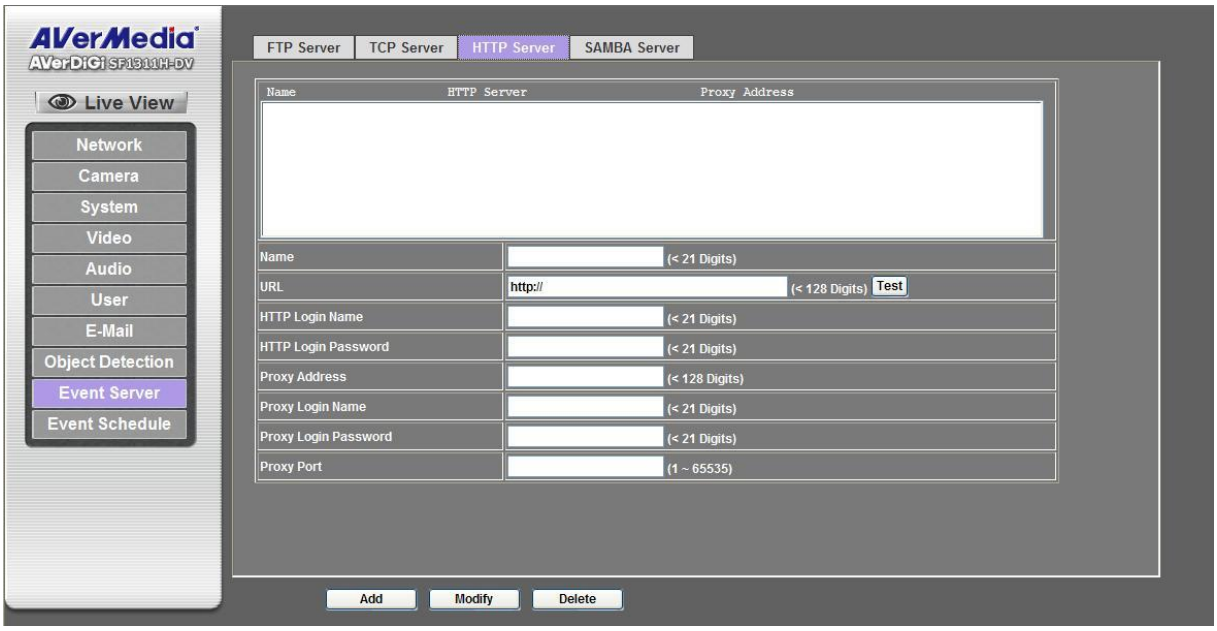
In addition to send video file to FTP server, the device also can send event message to specified TCP server.



- **Name:** User can specify multiple TCP servers as wish. Therefore, user needs to specify a name for each TCP server setting.
- **TCP Server:** Type the server name or the IP address of the TCP server.
- **TCP Port:** Set port number of TCP server.

HTTP Server

The device also can send event message to specified HTTP server.

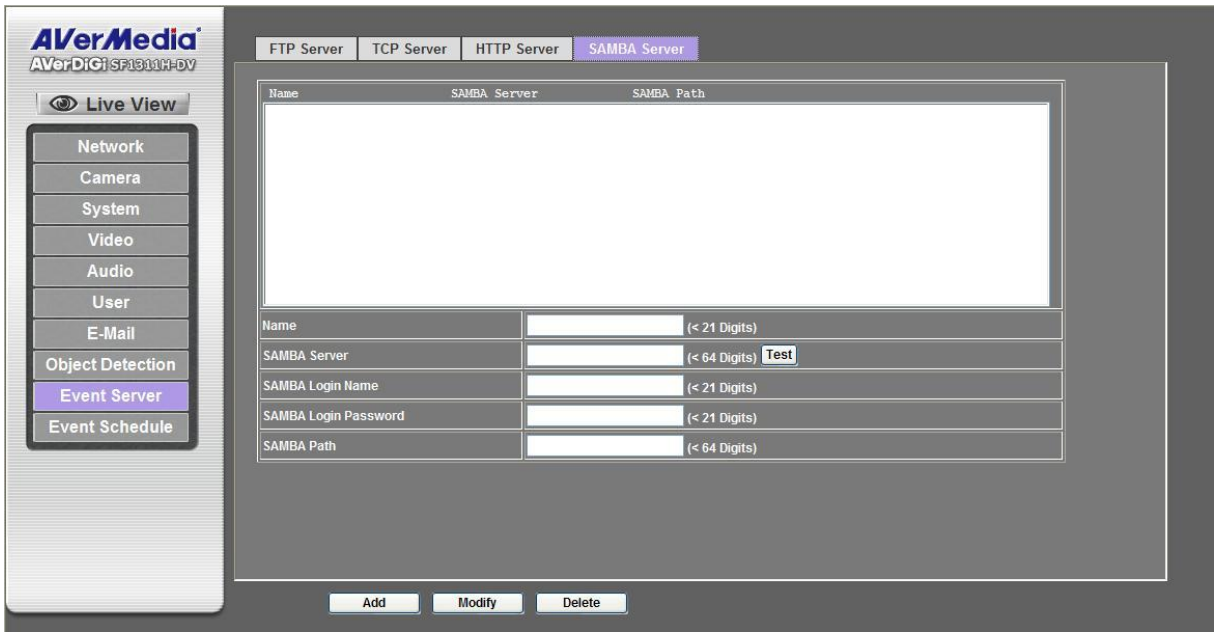


- **Name:** User can specify multiple HTTP servers as wish. Therefore, user needs to specify a name for each HTTP server setting.
- **URL:** Type the server name or the IP address of the HTTP server.
- **Test:** Check the HTTP server whether it is available or not.
- **HTTP Login Name:** Type the user name for the HTTP server.

- **HTTP Login Password:** Type the password for the HTTP server.
- **Proxy Address:** Type the server name or the IP address of the HTTP Proxy.
- **Proxy Login Name:** Type the user name for the HTTP Proxy.
- **Proxy Login Password:** Type the password for the HTTP Proxy.
- **Proxy Port:** Set port number of Proxy.

SAMBA Server

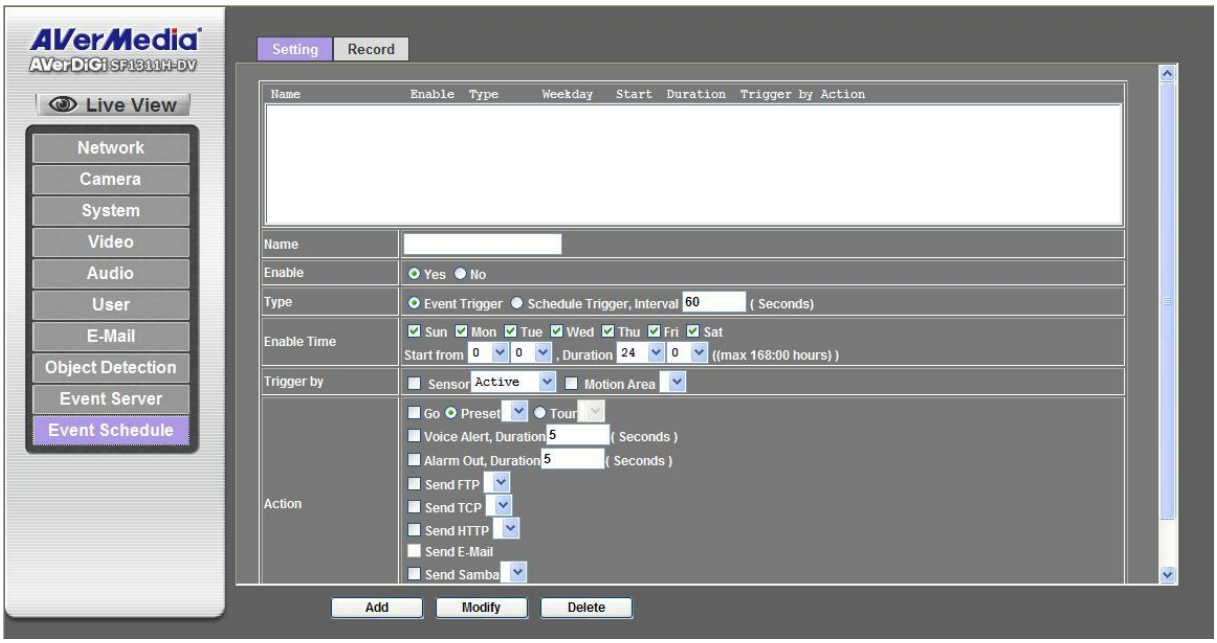
The device also can send video stream to specified SAMBA server.



- **Name:** User can specify multiple Samba servers as wish. Therefore, user needs to specify a name for each Samba server setting.
- **SAMBA Server:** Type the server name or the IP address of the SAMBA server.
- **Test:** Check the SAMBA server whether this account is available or not.
- **SAMBA Login Name:** Type the user name for the SAMBA server.
- **SAMBA Login Password:** Type the password for the SAMBA server.
- **SAMBA Path:** Set working directory path of SAMBA server.

Event Schedule: Configure the Event Schedule Setting

This menu is used to specify the schedule of Event or Schedule Trigger and activate the some actions provided by this device. Where the Schedule Trigger will be activated by user-define interval without event happened.



- **Name:** Name of the Event or Schedule.
- **Enable:** Enable or disable this Event or Schedule.
- **Type:** Event trigger or Schedule trigger.
- **Enable Time:** Define the feasible time slot.
- **Trigger by:** Select the sources to be triggered.
- **Action:** Define the actions once event triggered.

Example 1:

Send file to FTP server by always motion triggered:

1. Select event trigger
2. Enable time: start from 00:00 to 24:00 every day
3. Trigger by: Motion Area (Added in Object Detection page)
4. Action : Send FTP (Add in Event Server -> FTP Server page)

Example 2:

Send file to E-Mail server by motion triggered from Friday 18:00 to Saturday 06:00

1. Select event trigger.
2. Enable time: start from Friday 18:00 and keep work in 12 hours, so it will stop on Saturday 06:00.
3. Trigger by : Motion Area (Added in Object Detection page)
4. Action : Send e-mail (Add in E-Mail page)
   i. To email address: You need to input the receiver email address.
   ii. Subject: You could specify the email subject.
   iii. Message: You could specify the email content.

Example 3:

Enable Voice Alert every 10-minute during 18:00 to 24:00 from Monday to Friday.

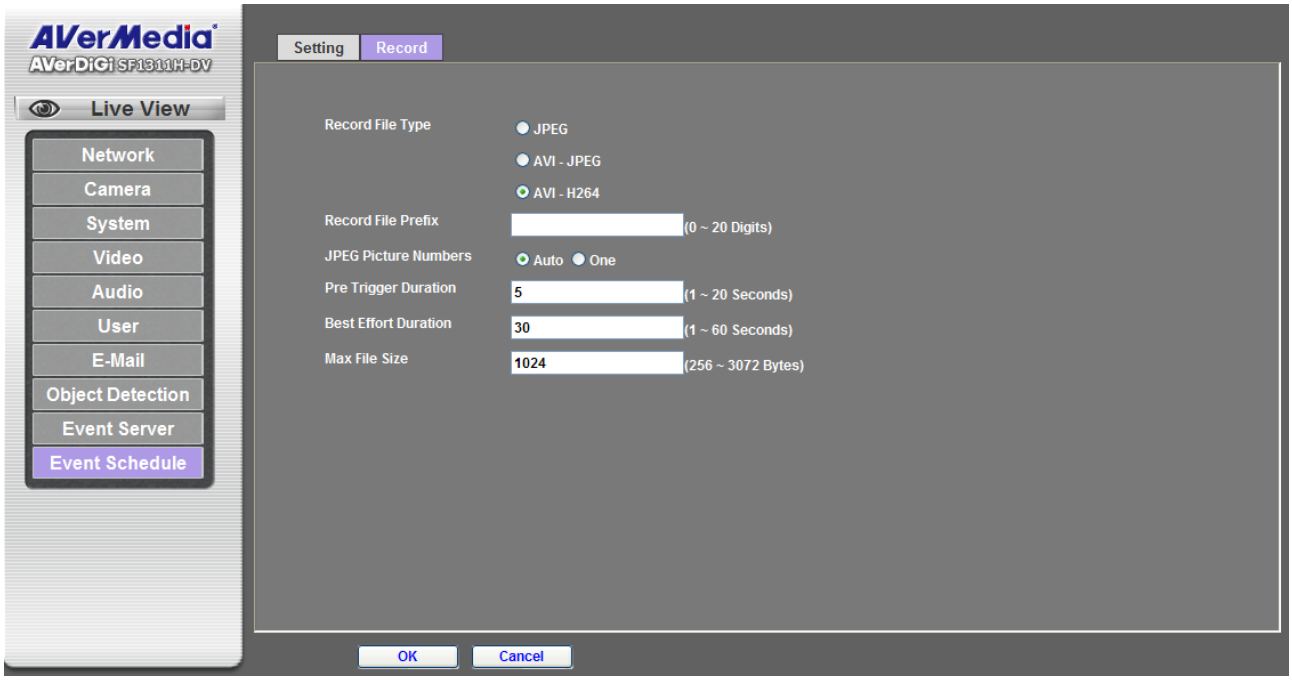
1. Type: Schedule trigger and interval is 10-minute.
2. Enable time: Select Monday to Friday, and set start time from 18:00 and keep work in 6

hours.

3. Trigger by : You do not need to choose it, because this will be triggered every minute
4. Action : Voice Alert

Record

User can choose the type of record file for event or schedule application.



- **Record File Type:** Choose AVI or JPEG file format.
- **Record File Prefix:** Define the prefix of recorded filename.
- **JPEG Picture Numbers:** Define the picture numbers of JPEG to be sent out.
- **Pre Trigger Duration :** Time of pre-record when alarm triggered.
- **Best Effort Duration :** Time of post-record when alarm triggered.
- **Max File Size :** The maximum video file size for recording.

Appendix A: Alarm I/O Connector

Some features of the Camera can be activated by the external sensor that senses physical changes in the area Camera is monitoring. These changes can include intrusion detection or certain physical change in the monitored area. For examples, the external sensor can be a door switch or an infrared motion detector. These devices are customer provided, and are available from dealers who carry surveillance and security products. Electrically, they must be able to provide a momentary contact closure.

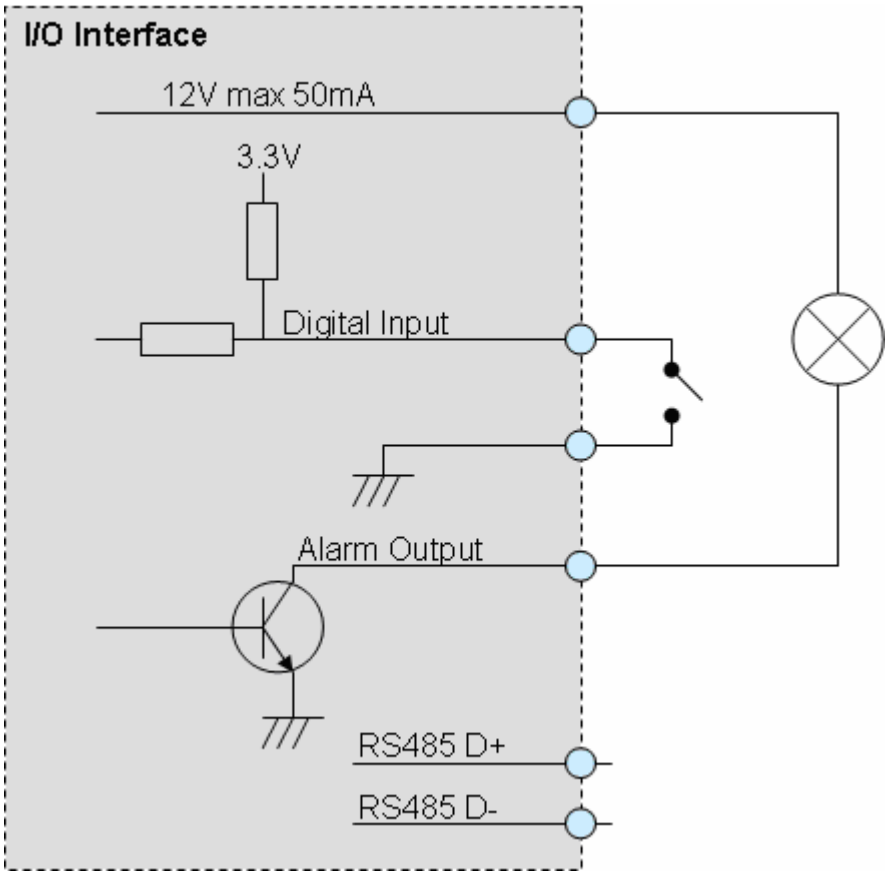
This Camera provides wires for general I/O terminal and RS485 interface as below:

Cable for I/O connectors:

Name	Cable Color	Function
12VDC	Brown/White	DC 12V (50mA maximum)
GND	Blue/White	GND
D+	Purple/White	RS485 TX +
D-	Gray	RS485 TX -
DI	Green/White	Digital signal input
DO	Orange/White	Digital signal output (alarm)

User can refer to the schematic below to make a proper connection between I/O connector and external sensor and output device.

Explanation of External I/O Circuit Diagram:



CAUTION

- THE LOW VOLTAGE/CURRENT CIRCUITS AND HIGH VOLTAGE/ CURRENT CIRCUITS ARE IN THE NETWORK CAMERA CIRCUIT. THE QUALIFIED ELECTRICIAN SHOULD DO THE WIRING NOT BY YOURSELF. INCORRECT WIRING COULD DAMAGE NWTWORK

CAMERA. YOU COULD RECEIVE THE FATAL ELECTRIC SHOCK.

- THE EXTERNAL I/O IS NOT CAPABLE OF CONNECTING DIRECTLY TO DEVICES THAT REQUIRE LARGE AMOUNTS OF CURRENT. IN SOME CASES, A CUSTOM INTERFACE CIRCUIT (CUSTOMER PROVIDED) MAY HAVE TO BE USED. SERIOUS DAMAGE TO NETWORK CAMERA MAY RESULT IF A DEVICE IS CONNECTED TO THE EXTERNAL I/O THAT EXCEEDS ITS ELECTRICAL CAPABILITY.

Appendix B: Troubleshooting & FAQ

Question	Answer or Resolution
Features	
The video and audio codec is adopted in the device.	The device utilizes H.264, MPEG4 and JPEG triple compression to providing high quality images. Where H.264 and MPEG4 are standards for video compression and JPEG is a standard for image compression. The audio codec is defined as AMR for 3GPP and G.711/G.726 for RTSP streaming.
The maximum number of users accesses the device simultaneously.	The maximum number of users is limited to 20. However, it also depends on the total bandwidth accessed to this device from clients. The maximum data throughput of the device is around 20~25Mbps for UDP mode and 10Mbps for HTTP mode. Therefore, the actual number of connected clients is varying by streaming mode, settings of resolution, codec type, frame rate and bandwidth. Obviously, the performance of the each connected client will slow down when many users are logged on.
The device can be used outdoors or not.	The device is not weatherproof. It needs to be equipped with a weatherproof case for outdoors using. However, equipped with a weatherproof case might disable the audio function of the device.
Install this device	
Status LED does not light up.	■ Check and confirm that the DC power adaptor, included in packaged, is used. Secure the power connector and re-power it on again. ■ If the problem is not solved, the device might be faulty. Contact your dealer for further help.
The network cabling is required for the device.	The device uses Category 5 UTP cable allowing 10 and/or 100 Base-T networking.
The device will be installed and work if a firewall exists on the network.	If a firewall exists on the network, port 80 is open for ordinary data communication. The HTTP port and RTSP port need to be opened on the firewall or NAT router.
The username and password for the first time or after factory default reset	Username is **admin** and password is **admin** Note that it's all case sensitivity.
Forgot the username and password	Follow the steps below. 1. Restore the factory default setting by press pressing and holding down more than 5 seconds on the device. 2. Reconfigure the device.
Forgot the IP address of the device	Check IP address of device by using the IPWizard II program or by UPnP discovery.
IPWizard II program cannot find the device	■ Re-power the device if cannot find the unit within 1 minutes. ■ Do not connect device over a router. IPWizard II program cannot detect device over a router. ■ If IP address is not assigned to the PC which running IPWizard II program, then IPWizard II program cannot find device. Make sure that IP address is assigned to the PC properly. ■ Antivirus software on the PC might interfere with the setup program. Disable the firewall of the antivirus software during setting up this device. ■ Check the firewall setting of your PC or Notebook.
Internet Explorer does not seem to work well with the device	Make sure that your Internet Explorer is version 6.0 or later. If you are experiencing problems, try upgrading to the latest version of Microsoft's Internet Explorer from the Microsoft webpage.

Question	Answer or Resolution
Install this device	
IPWizard II program fails to save the network parameters	Network may have trouble. Confirm the parameters and connections of the device.
UPnP NAT Traversal	
Doesn't work with NAT router	Maybe NAT router does not support UPnP function. Please check user's manual of router and turn on UPnP function. Maybe UPnP function of NAT router is not compatible to the IP camera. Please contact your dealer to get the approval routers list.
Some IP cameras are working but others are failed	Maybe too many IP cameras have been installed on the LAN, and then NAT router is out of resource to support more cameras. You could turn off and on NAT router to clear out of date information inside router.
Access this device	
Cannot access the login page and other web pages of the Network Camera from Internet Explorer	■ Maybe the IP Address of the Network Camera is already being used by another device or computer. To confirm this possible problem, disconnect the Network Camera from the network first, and then run the PING utility to check it out. ■ Maybe due to the network cable. Try correcting your network cable and configuration. Test the network interface by connecting a local computer to the Network Camera via a crossover cable. ■ Make sure the Internet connection and setting is ok. ■ Make sure enter the IP address of Internet Explorer is correct. If the Network Camera has a dynamic address, it may have changed since you last checked it. ■ Network congestion may prevent the web page appearing quickly. Wait for a while. ■ The IP address and Subnet Mask of the PC and Network Camera must be in the same class of the private IP address on the LAN. ■ Make sure the http port used by the Network Camera, default=80, is forward to the Network Camera's private IP address. ■ The port number assigned in your Network Camera might not be available via Internet. Check your ISP for available port. ■ The proxy server may prevent you from connecting directly to the Network Camera, set up not to use the proxy server. ■ Confirm that Default Gateway address is correct. ■ The router needs Port Forwarding feature. Refer to your router's manual for details. ■ Packet Filtering of the router may prohibit access from an external network. Refer to your router's manual for details. ■ Access the Network Camera from the Internet with the global IP address of the router and port number of Network Camera. ■ Some routers reject the global IP address to access the Network Camera on the same LAN. Access with the private IP address and correct port number of Network Camera. ■ When you use DDNS, you need to set Default Gateway and DNS server address. ■ If it's not working after above procedure, reset Network Camera to default setting and installed it again. ■ If the problem is not solved, the Network Camera might be faulty. Contact your dealer for further help.

Question	Answer or Resolution
Access this device	
Image or video does not appear in the main page	■ The first time the PC connects to Network Camera, a pop-up **Security Warning window** will appear to download ActiveX Controls. When using Windows XP, or Vista, log on with an appropriate account that is authorized to install applications. ■ Network congestion may prevent the Image screen from appearing quickly. You may choose lower resolution to reduce the required bandwidth.
Check the device's ActiveX is installed on your computer	Go to C:\Windows\Downloaded Program Files and check to see if there is an entry for the file "**IPCamera Control"**. The status column should show "Installed". If the file is not listed, make sure your Security Settings in Internet Explorer are configured properly and then try reloading the device's home page. Most likely, the ActiveX control did not download and install correctly. Check your Internet Explorer security settings and then close and restart Internet Explorer. Try to browse and log in again.
Internet Explorer displays the following message: "Your current security settings prohibit downloading ActiveX controls"	Setup the IE security settings or configure the individual settings to allow downloading and scripting of ActiveX controls.
The device work locally but not externally	■ Might be caused from the firewall protection. Check the Internet firewall with your system or network administrator. The firewall may need to have some settings changed in order for the device to be accessible outside your LAN. ■ Make sure that the device isn't conflicting with any other web server running on your LAN. ■ Check the configuration of the router settings allow the device to be accessed outside your local LAN. ■ Check the bandwidth of Internet connection. If the Internet bandwidth is lower than target bit rate, the video streaming will not work correctly.
The unreadable characters are displayed.	Use the operating system of the selected language. Set the Encoding or the Character Set of the selected language on the Internet Explorer.
Frame rate is slower than the setting.	■ The traffic of the network and the object of the image affect the frame rate. The network congestion causes frame rate slower than the setting. ■ Check the bandwidth of Internet connection. If the Internet bandwidth is lower than target bit rate, the video streaming will not work correctly. ■ Ethernet switching hub can smooth the frame rate.
Blank screen or very slow video when audio is enabled	■ Your connection to the device does not have enough bandwidth to support a higher frame rate for the streamed image size. Try reducing the video streaming size to 160x120 or 320x240 and/or disabling audio. ■ Audio will consume 32 kbps. Disable audio to improve video. Your Internet connection may not have enough bandwidth to support streaming audio from the device.
Image Transfer on e-mail or FTP does not work	■ Default Gateway and DNS server address should be set up correctly. ■ If FTP does not work properly, ask your ISP or network administrator about the transferring mode of FTP server.

Question	Answer or Resolution
Access this device	
Pan/Tilt does not work. (including Click to Center and Preset Positioning)	■ Click **[Refresh]** on the Internet Explorer when the communication stops with the device. The image will refresh. ■ Other clients may be operating Pan/Tilt. ■ Pan/Tilt operation has reached the end of corner.
Pan/Tilt does not work smoothly	There may be a slight delay when you are using the Pan/Tilt feature in conjunction with streaming audio and video. If you find that there is a significant delay while panning or tilting the camera, try disabling the audio streaming and/or reducing the video streaming size.
Video quality of the device	
The focus on the Camera is bad	■ The lens is dirty or dust is attached. Fingerprints, dust, stain, etc. on the lens can degrade the image quality.
The color of the image is poor or strange	■ Adjust White Balance. ■ To insure the images you are viewing are the best they can be, set the Display property setting (color quality) to 16bit at least and 24 bit or higher if possible within your computer. ■ The configuration on the device image display is incorrect. You need to adjust the image related parameters such as brightness, contrast, hue and sharpness properly.
Image flickers	■ Wrong power line frequency makes images flicker. Make sure the 50 or 60Hz format of your device. ■ If the object is dark, the image will flicker. Make the condition around the Camera brighter.
Noisy images occur	The video images might be noisy if the device is located in a very low light environment. Make the condition around the camera brighter or turn the White-light LED on.
Miscellaneous	
Cannot play the recorded ASF file	Have installed Microsoft's DirectX 9.0 or later and use the Windows Media Player 11.0 or later to play the AVI filed recorded by the Device.

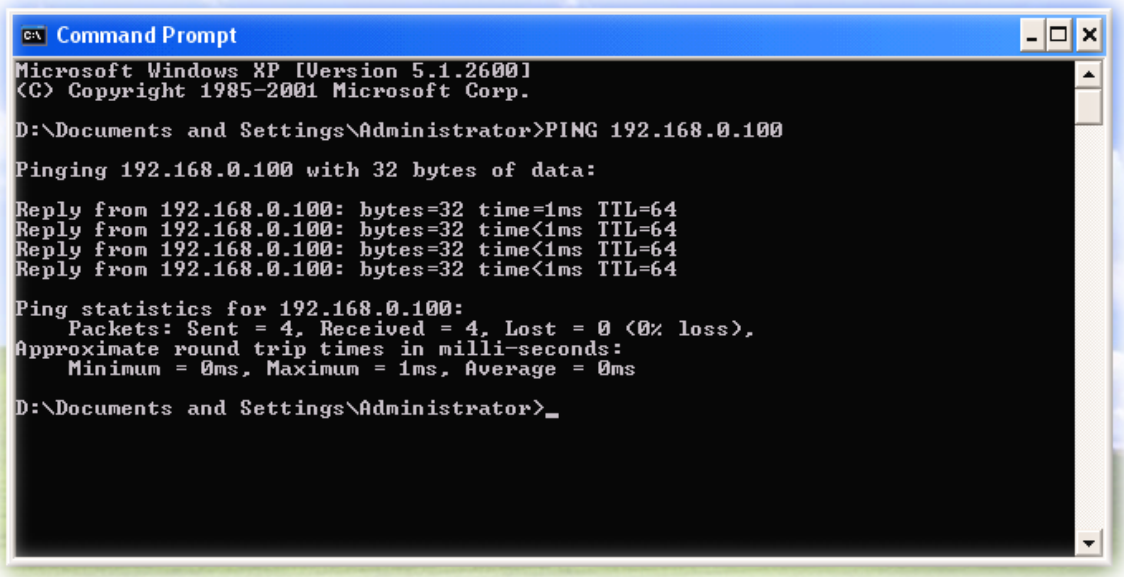
Appendix C: PING IP Address

The PING (stands for Packet Internet Groper) command is used to detect whether a specific IP address is accessible by sending a packet to the specific address and waiting for a reply. It's also a very useful tool to confirm Network Camera installed or if the IP address conflicts with any other devices over the network.

If you want to make sure the IP address of Network Camera, utilize the PING command as follows:

- Start a DOS window.
- Type ping x.x.x.x, where x.x.x.x is the IP address of the Network Camera.

The replies, as illustrated below, will provide an explanation to the problem.


Command Prompt
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
D:\Documents and Settings\Administrator>PING 192.168.0.100
Pinging 192.168.0.100 with 32 bytes of data:
Reply from 192.168.0.100: bytes=32 time=1ms TTL=64
Reply from 192.168.0.100: bytes=32 time<1ms TTL=64
Reply from 192.168.0.100: bytes=32 time<1ms TTL=64
Reply from 192.168.0.100: bytes=32 time<1ms TTL=64
Ping statistics for 192.168.0.100:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
D:\Documents and Settings\Administrator>

If you want to detect any other devices conflicts with the IP address of Network Camera, also can utilize the PING command but you must disconnect the Network Camera from the network first.

Appendix D: Bandwidth Estimation

The frame rate of video transmitted from the device depends on connection bandwidth between client and server, video resolution, codec type, and quality setting of server. Here is a guideline to help you roughly estimate the bandwidth requirements for your device.

The required bandwidth depends on content of video source. The slow motion video will produce smaller bit rate generally and fast motion will produce higher bit rate vice versa. Actual results generated by the device may be varying.

Image Resolution	Average range of data sizes for JPEG mode	Average bit rate for MPEG4 mode	Average bit rate for H.264 mode
160 x 120 (QQVGA)	3 ~ 6k byte per frame	64kbps~256kbps @ 30fps	32kbps~192kbps @ 30fps
320 x 240 (QVGA)	8 ~ 20k byte per frame	256kbps~768kbps @ 30fps	192kbps~512kbps @ 30fps
640 x 480 (VGA)	20 ~ 50K byte per frame	512kbps~2048kbps @ 30fps	384kbps~1536kbps @ 30fps
1280x1024 (SXGA)	100 ~ 200k byte per frame	NA	512kbps~3076kbps @ 15fps

[Note] Audio streaming also takes bandwidth around 32kbps. Some xDSL/Cable modem upload speeds could not even reach up to 128 kbps. Thus, you may not be able to receive good quality video while also streaming audio on a 128 kbps or lower connection. Even though the upload speed is more than 128kbps, for optimal video performance, disabling audio streaming will get better video performance.

Appendix E: Specifications

Camera	
Image Device	1.3 Mega-pixel image sensor
Effective Pixels	1280 x 1024 pixels
Sensitivity	1.0V/lux-sec (550nm)
Signal to Noise	44dB
Lens	F:1.2 ; f2.7mm-9mm
Pan & Tilt	
Preset Points	128 preset points (maximum)
Camera Tour	16 tours
IP Module	
Video	
Video Encoder	H.264, MPEG4 and Motion JPEG simultaneously (Tri-encoders)
Video Profile	11 profiles simultaneously - H.264 SXGA/ VGA / QVGA / QQVGA - MPEG4 VGA / QVGA / QQVGA - M-JPEG SXGA/ VGA / QVGA / QQVGA
Frame Rate	Mega-pixel mode: Up to 15fps for all 11 profiles VGA mode: Up to 30fps for all 9 profiles
Image Setting	De-noise Brightness, sharpness, contrast, color Text, time and date overlay
Streaming	Simultaneously multi-profile streaming Streaming over UDP, TCP, or HTTP Multicast streaming M-JPEG streaming over HTTP Supports 3GPP mobile surveillance Controllable frame rate and bandwidth Constant and variable bit rate (MPEG4 / H.264)
Audio	
Audio Encoder	RTSP: G.711 64kbps, G.726 32kbps 3GPP: AMR
Audio Streaming	two-way
Microphone	External microphone input
Audio Output	Line level out
Network	
Supported Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, PPPoE, 3GPP, ICMP, SAMBA
Security	Password protection, IP address filtering, user access log
Users	Up to 20 users simultaneously
Ethernet	10/100M auto negotiation
System Integration	
Application Programming Interface	Open API for software integration SDK
Alarm Triggers	Intelligent video motion detection and external input
Motion Detection	10-zone video motion detection
Alarm Events	File upload via FTP or email Notification via email, HTTP, and TCP External output activation Go to PTZ preset position Audio alerting output

IP Module	
System Integration	
Video Buffer	Pre- and post- alarm buffering
General	
RAM	128MB
ROM	8MB
Power Supply	12V DC external power adapter
PoE	IEEE 802.3af (for wired model only)
Power Consumption	5W (max) / 6W (max) while IR LED on
Connectors	RJ-45 10BaseT/100BaseTX DC jack 1 alarm input and 1 output Audio in/out RS485
Indication LED	Two LEDs
IR LED	IR LED x 24pcs
IR Wavelength	850nm
Protection Class	Indoor / Outdoor use
Construction	3-axis mechanical design
Operating Temperature	-10°C to 50°C
Operating Humidity	20% ~ 80% (non-condensing)
Dimension	145mm x 108mm x145mm
Viewing System	
OS	Windows® XP, Vista
Browser	IE 6.0 / Firefox 2.0 / Safari 4.0 or above
Cell Phone	With 3GPP player
Video Player	VLC, Quick Time, RealPlayer, CorePlayer
Software	
Search & Installation	IPWizard II
Bundled NVR Program	SecuGuard Basic

Appendix F: Configure Port Forwarding Manually

The device can be used with a router. If the device wants to be accessed from the WAN, its IP address needs to be setup as fixed IP address, also the port forwarding or Virtual Server function of router needs to be setup. This device supports UPnP traversal function. Therefore, user could use this feature to configure port forwarding of NAT router first. However, if user needs to configure port forwarding manually, please follow the steps as below:

Manually installing the device with a router on your network is an easy 3–step procedure as following:

(1) Assign a local/fixed IP address to your device
(2) Access the Router with Your Web browser
(3) Open/Configure Virtual Server Ports of Your Router

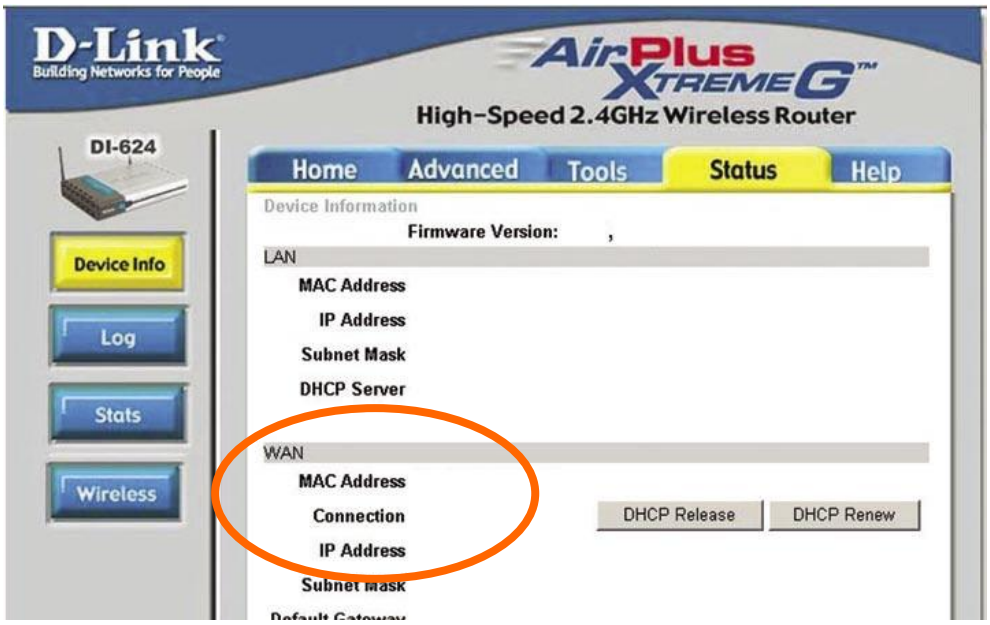
(1) Assign a local/fixed IP address to your device

The device must be assigned a local and fixed IP Address that allows it to be recognized by the router. Manually setup the device with a fixed IP address, for example, *192.168.10.30.*

(2) Access the Router with Your Web browser

The following steps generally apply to any router that you have on your network. The D-Link DI-624 is used as an example to clarify the configuration process. Configure the initial settings of the router by following the steps outlined in the router's **Quick Installation Guide**.

If you have cable or DSL service, you will most likely have a dynamically assigned WAN IP Address. 'Dynamic' means that your router's WAN IP address can change from time to time depending on your ISP. A dynamic WAN IP Address identifies your router on the public network and allows it to access the Internet. To find out what your router's WAN IP Address is, go to the **Status** screen on your router and locate the WAN information for your router. As shown on the following page the WAN IP Address will be listed. This will be the address that you will need to type in your web browser to view your camera over the Internet. Be sure to uncheck the **Reset IP address at next boot** button at the top of the screen after modifying the IP address. Failure to do so will reset the IP address when you restart your computer.



Your WAN IP Address will be listed here.

[Note] Because a dynamic WAN IP can change from time to time depending on your ISP, you may want to obtain a Static IP address from your ISP. A Static IP address is a fixed IP address that will not change over time and will be more convenient for you to use to access your camera from a remote location. If you could not get a Static IP address from your ISP, DDNS is a solution alternatively. Please refer to Appendix G for more information.

(3) Open/set Virtual Server Ports to enable remote image viewing

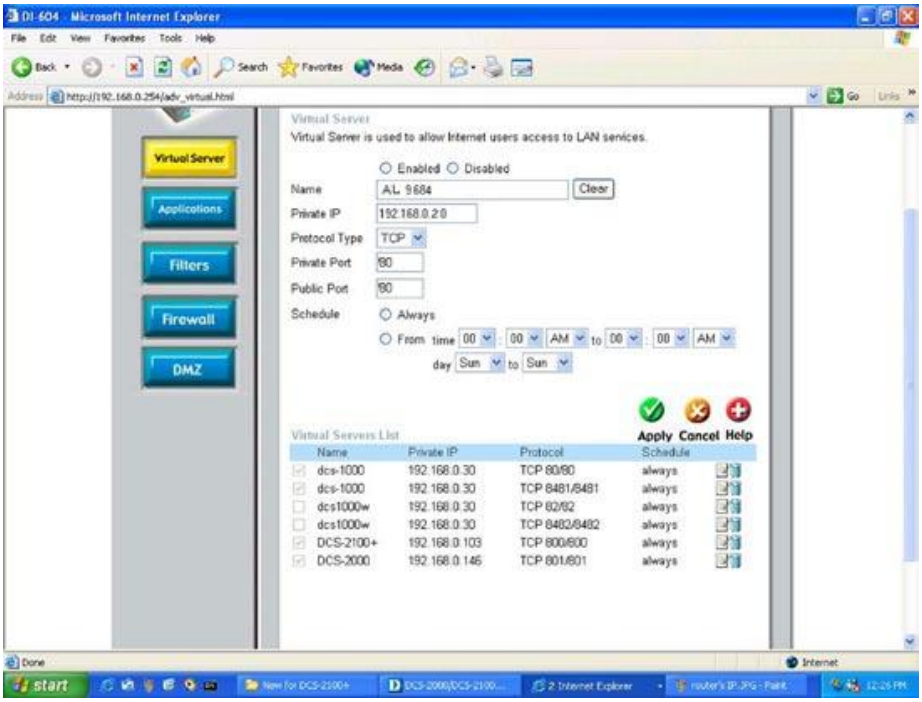
The firewall security features built into the router and most routers prevent users from accessing the video from the device over the Internet. The router connects to the Internet over a series of numbered ports. The ports normally used by the device are blocked from access over the Internet. Therefore, these ports need to be made accessible over the Internet. This is accomplished using the **Virtual Server** function on the router. The Virtual Server ports used by the camera must be opened through the router for remote access to your camera. Virtual Server is accessed by clicking on the **Advanced** tab of the router screen.

Follow these steps to configure your router's Virtual Server settings

- Click **Enabled**.
- Enter a unique name for each entry.
- Select **Both** under **Protocol Type** (**TCP** and **UDP**)
- Enter your camera's local IP Address (e.g., **192.168.10.30**, for example) in the **Private IP** field.
- If you are using the default camera port settings, enter **80** into the **Public** and **Private Port** section, click **Apply.**
- **Scheduling** should be set to **Always** so that the camera images can be accessed at any time.

A check mark appearing before the entry name will indicate that the ports are enabled.

[IMPORTANT] Some ISPs block access to port 80. Be sure to check with your ISP so that you can open the appropriate ports accordingly. If your ISP does not pass traffic on port 80, you will need to change the port the camera uses from 80 to something else, such as 8080. Not all routers are the same, so refer to your user manual for specific instructions on how to open ports.



Enter valid ports in the **Virtual Server** section of your router. Please make sure to check the box on this line to enable settings. Then the device can be access from WAN by the router's WAN IP Address.

By now, you have finished your entire PC configuration for this device.

Appendix G: DDNS Application

1. Preface

If you have a Cable modem or xDSL, this is a great way to host your own Networked Device or other TCP/IP Service. Get your own domain like www.yourname.com, www.yourname.com.tw etc. (Note: This domain must be registered with Internic via registration authorities such as Network Solutions, DirectNIC, Register.com etc). Your domain name's dynamic IP address is automatically tracked by a DDNS server.

Host your own Networked Device and much more no matter what your computer's IP address may be and even if you have dialup, DSL or cable modem internet connection where your computer's IP address changes all the time!! DDNS service supports all top level domain names including but not limited to .com, .net, .org, .to, .uk etc.

2. Ethernet Network Environment

Normally, DDNS service is only necessary for the users that could only obtain dynamic IP addresses. As to the users that could obtain the static valid IP address, they do not usually have to apply the DDNS service. Before we decide if DDNS is necessary for the users, we have to check what kind of Ethernet network environment we have to install our Networked Device on.

(1) Environment of Fixed Valid IP Network

If users could obtain valid IP addresses, they could save the effort to apply DDNS service. Because the IP address in this environment is fixed, users could input the IP address or domain name of demo site directly in the IE browser.

(2) Environment of Dynamic IP Network

If users is under an environment of dynamic IP network (Dial-up xDSL), they have to apply a domain name in advance. Then apply DDNS service. Finally setup the necessary information of DDNS and PPPoE of the Networked Device in order to let the outside administrator be able to access through internet.

3. Application Steps—DDNS & Domain Name

(1) Visit the following web site: http://www.dyndns.org/

(2) Click "**Account**"

(3) After the columns show up at the left side, click “**Create Account**”.

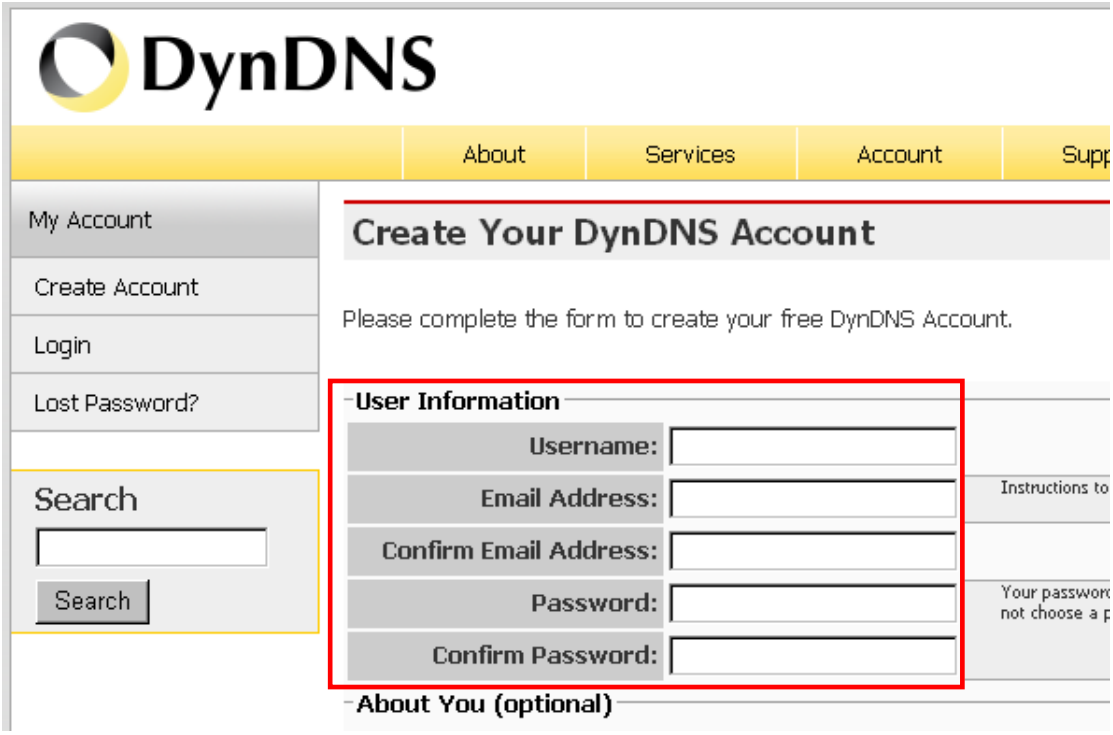
(4) Fill the application agreement and necessary information.

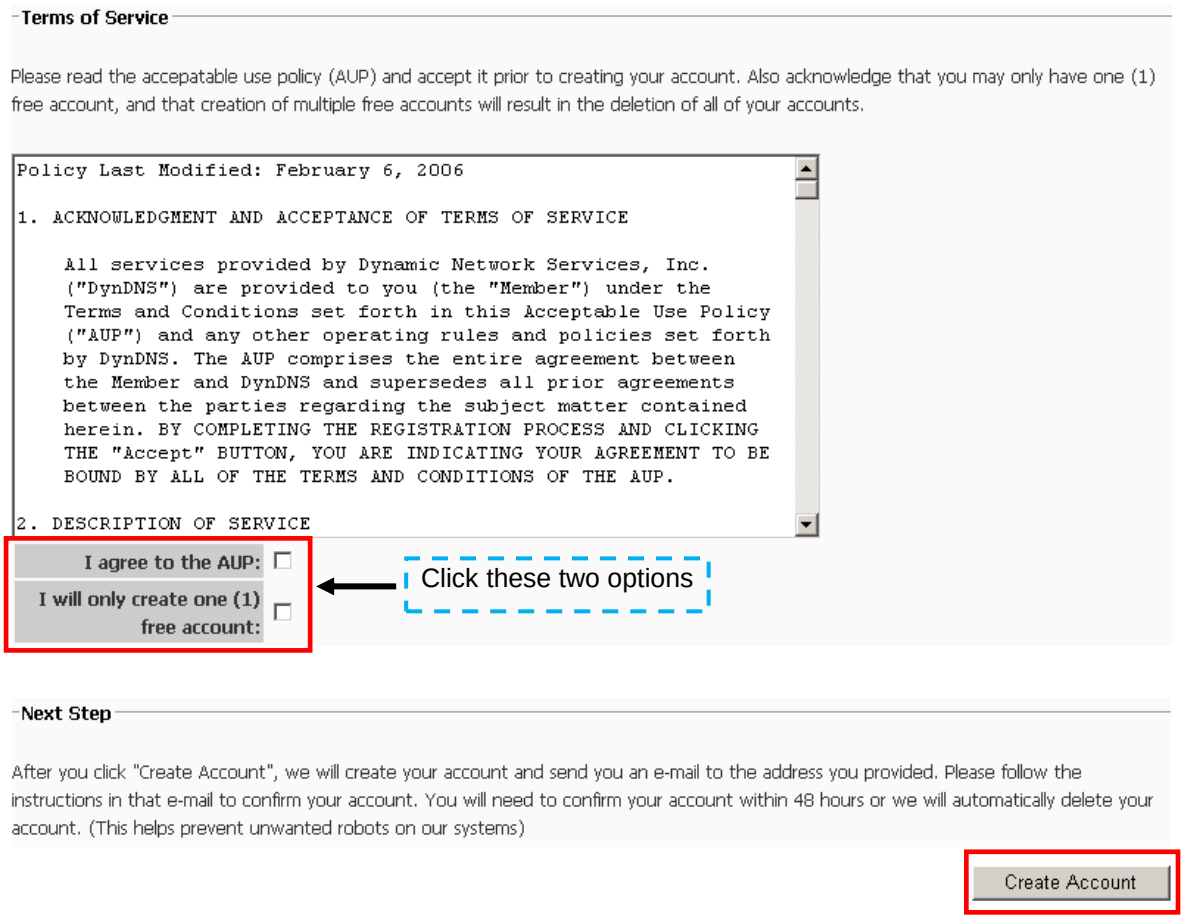
a. Username

b. E-mail address and confirmation

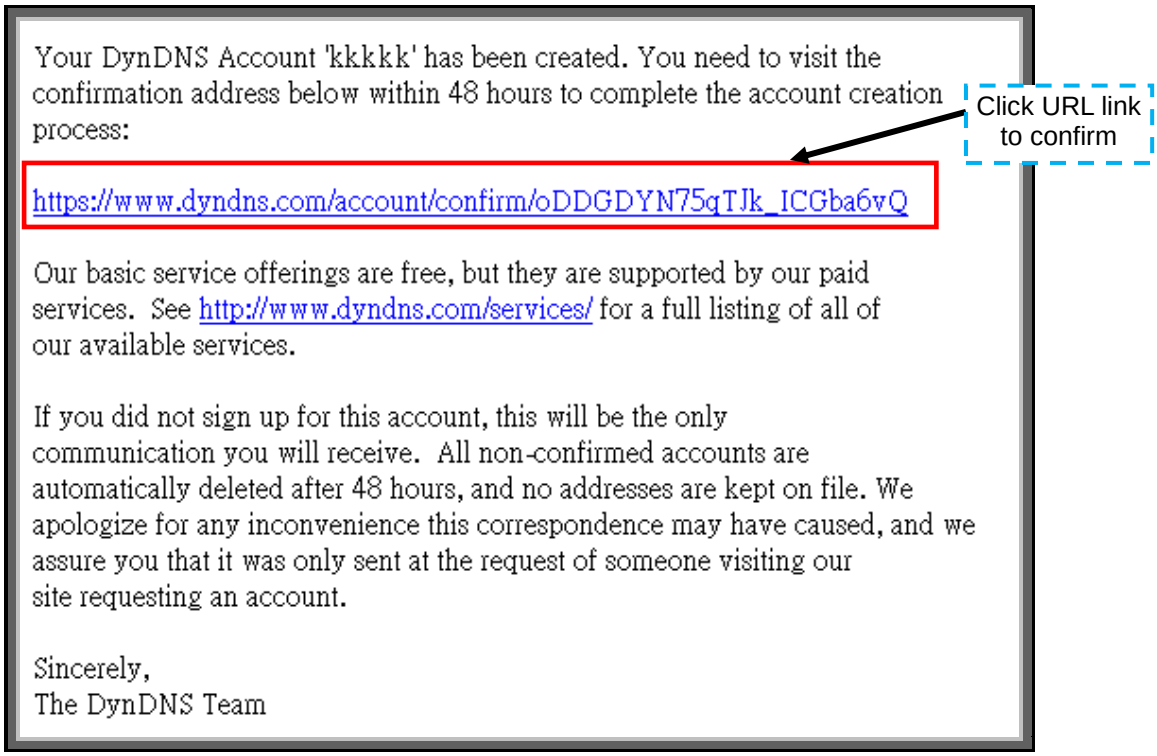
c. Password and confirmation

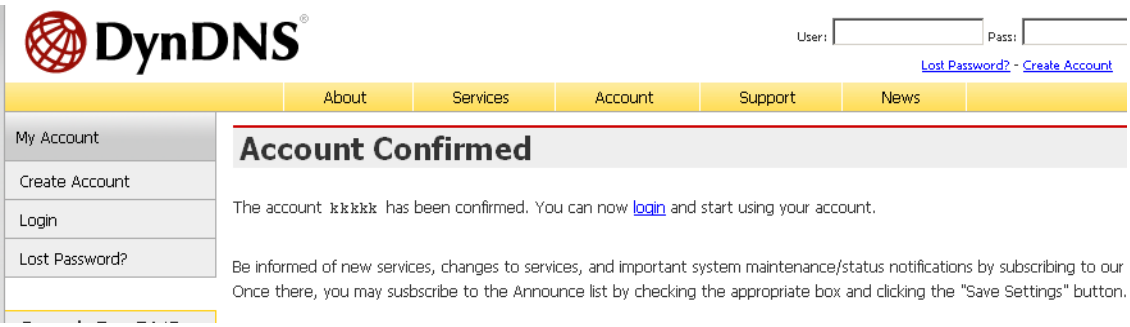
d. Submit all the input information and finish creating an account



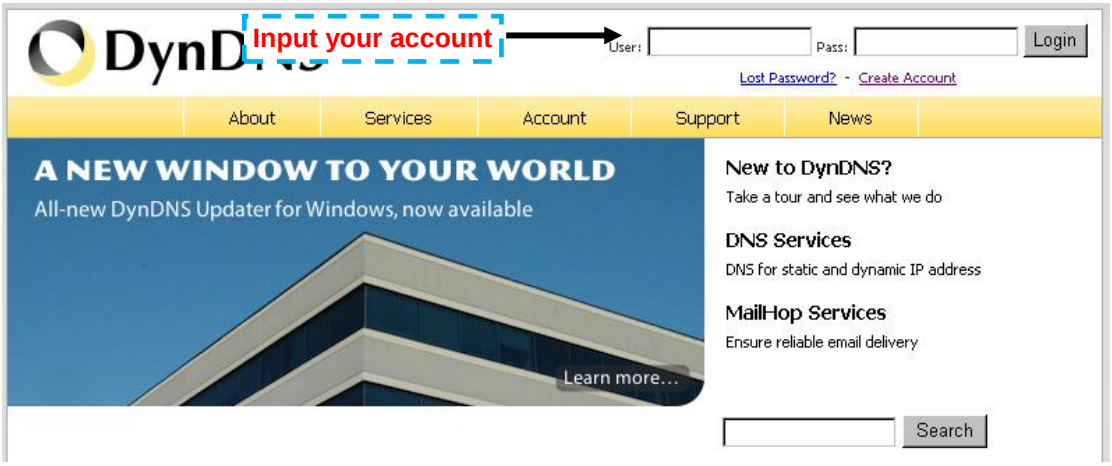

Terms of Service
Please read the accepatable use policy (AUP) and accept it prior to creating your account. Also acknowledge that you may only have one (1) free account, and that creation of multiple free accounts will result in the deletion of all of your accounts.
Policy Last Modified: February 6, 2006
1. ACKNOWLEDGMENT AND ACCEPTANCE OF TERMS OF SERVICE
All services provided by Dynamic Network Services, Inc. ("DynDNS") are provided to you (the "Member") under the Terms and Conditions set forth in this Acceptable Use Policy ("AUP") and any other operating rules and policies set forth by DynDNS. The AUP comprises the entire agreement between the Member and DynDNS and supersedes all prior agreements between the parties regarding the subject matter contained herein. BY COMPLETING THE REGISTRATION PROCESS AND CLICKING THE "Accept" BUTTON, YOU ARE INDICATING YOUR AGREEMENT TO BE BOUND BY ALL OF THE TERMS AND CONDITIONS OF THE AUP.
2. DESCRIPTION OF SERVICE
I agree to the AUP:
I will only create one (1) free account:
Click these two options
Next Step
After you click "Create Account", we will create your account and send you an e-mail to the address you provided. Please follow the instructions in that e-mail to confirm your account. You will need to confirm your account within 48 hours or we will automatically delete your account. (This helps prevent unwanted robots on our systems)
Create Account

(5) Check your e-mail mailbox. There will be an e-mail with a title “Your DynDNS Account Information“. Click the hyperlink address to confirm the DDNS service that you just applied. Then DDNS you applied activated.


Your DynDNS Account 'kkkkk' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:
Click URL link to confirm
https://www.dyndns.com/account/confirm/oDDGDYN75qTJk_ICGba6vQ
Our basic service offerings are free, but they are supported by our paid services. See http://www.dyndns.com/services/ for a full listing of all of our available services.
If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account.
Sincerely,
The DynDNS Team

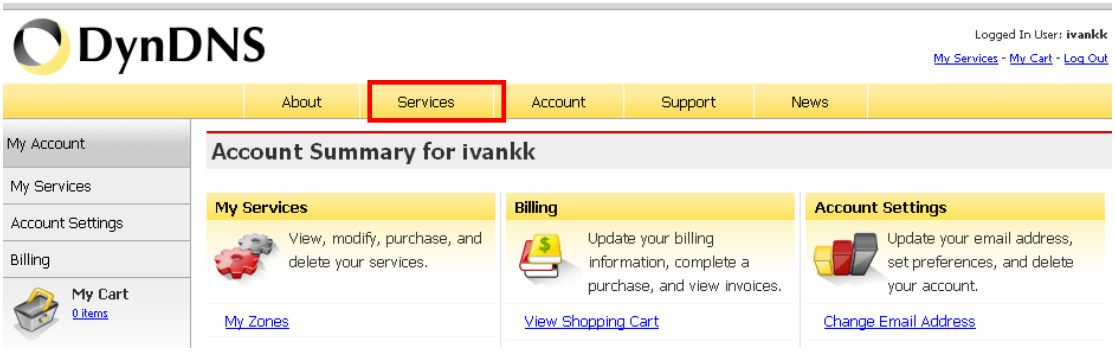

DynDNS
User:
Pass:
Lost Password? - Create Account
About
Services
Account
Support
News
My Account
Create Account
Login
Lost Password?
Account Confirmed
The account kkkkk has been confirmed. You can now login and start using your account.
Be informed of new services, changes to services, and important system maintenance/status notifications by subscribing to our
Once there, you may susbscribe to the Announce list by checking the appropriate box and clicking the "Save Settings" button.

(6) Enter the web page http://www.dyndns.org/ again. Input your username and password that you just applied to login administration interface of DDNS server.

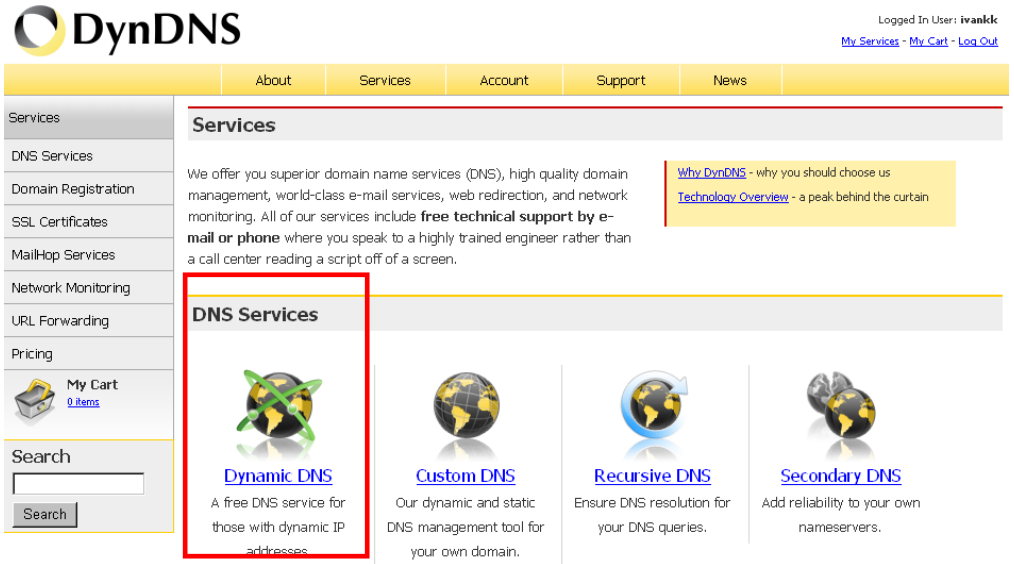


(7) If the correct username and password are input, you can see the following picture at the top-right of the login page.

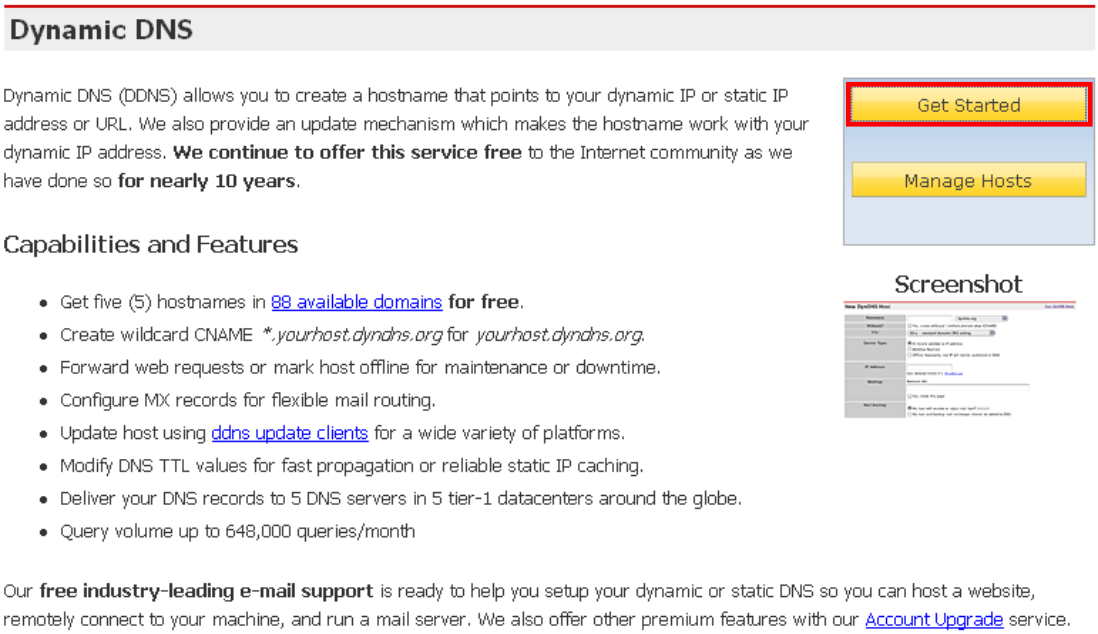
(8) Click the "**Services**".



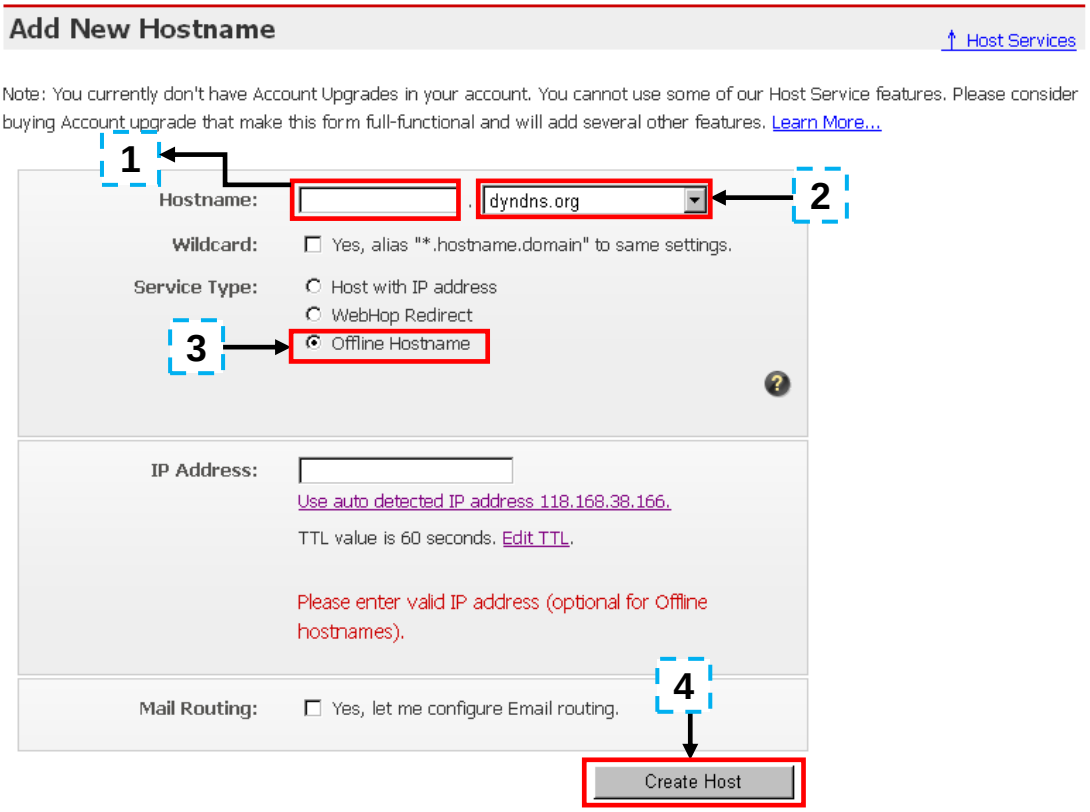
(9) Click the “ **Dynamic DNS** ”.


DynDNS
Logged In User: ivankk
My Services - My Cart - Log Out
About
Services
Account
Support
News
Services
DNS Services
Domain Registration
SSL Certificates
MailHop Services
Network Monitoring
URL Forwarding
Pricing
My Cart
0 items
Search
Search
Services
We offer you superior domain name services (DNS), high quality domain management, world-class e-mail services, web redirection, and network monitoring. All of our services include free technical support by e-mail or phone where you speak to a highly trained engineer rather than a call center reading a script off of a screen.
Why DynDNS - why you should choose us
Technology Overview - a peak behind the curtain
DNS Services
Dynamic DNS
A free DNS service for those with dynamic IP addresses
Custom DNS
Our dynamic and static DNS management tool for your own domain.
Recursive DNS
Ensure DNS resolution for your DNS queries.
Secondary DNS
Add reliability to your own nameservers.

(10) Click the “**Get Started**”.


Dynamic DNS
Dynamic DNS (DDNS) allows you to create a hostname that points to your dynamic IP or static IP address or URL. We also provide an update mechanism which makes the hostname work with your dynamic IP address. We continue to offer this service free to the Internet community as we have done so for nearly 10 years.
Get Started
Manage Hosts
Capabilities and Features
Screenshot
Get five (5) hostnames in 88 available domains for free.
Create wildcard CNAME *.yourhost.dyndns.org for yourhost.dyndns.org.
Forward web requests or mark host offline for maintenance or downtime.
Configure MX records for flexible mail routing.
Update host using ddns update clients for a wide variety of platforms.
Modify DNS TTL values for fast propagation or reliable static IP caching.
Deliver your DNS records to 5 DNS servers in 5 tier-1 datacenters around the globe.
Query volume up to 648,000 queries/month
Our free industry-leading e-mail support is ready to help you setup your dynamic or static DNS so you can host a website, remotely connect to your machine, and run a mail server. We also offer other premium features with our Account Upgrade service.

(11) We could create a domain name without any charge at this step. First, we input the host name. (Pink No.1) Then we pick a domain that is easy to remember. (Pink No.2) The 3rd step is to click “Offline Hostname” from Service Type. (Pink No.3) Finally, click the “Create Host” to submit the domain name information and finish DDNS application. (Pink No.4)


Add New Hostname
Host Services
Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Please consider buying Account upgrade that make this form full-functional and will add several other features. Learn More...
1
Hostname:
dyndns.org
2
Wildcard:
Yes, alias "*.hostname.domain" to same settings.
Service Type:
Host with IP address
WebHop Redirect
3
Offline Hostname
IP Address:
Use auto detected IP address 118.168.38.166.
TTL value is 60 seconds. Edit TTL.
Please enter valid IP address (optional for Offline hostnames).
Mail Routing:
Yes, let me configure Email routing.
4
Create Host

4. Setup the DDNS and PPPoE of Networked Device

At last, users have to enter the web page of Networked Device and setup the necessary information of DDNS and PPPoE after the application of DDNS service. Please check the user manual to access the DDNS and PPPoE pages. After saving the modification, restart the device. Then the external users could browse the Networked Device by the input of their domain name.

Appendix H: Power Line Frequency

COUNTRY	VOLTAGE	FREQUENCY	COMMENTS
Argentina	220V	50 Hz	*Neutral and line wires are reversed from that used in Australia and elsewhere.
Australia	230V*	50 Hz	*Outlets typically controlled by adjacent switch. Though *nominal* voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
Austria	230V	50 Hz	
Brazil	110/220V*	60 Hz	*127V found in states of Bahia, Paraná (including Curitiba), Rio de Janeiro, Sao Paulo and Minas Gerais (though 220V may be found in some hotels). Other areas are 220V only, with the exception of Fortaleza (240V).
Canada	120V	60 Hz	
China, People's Republic of	220V	50 Hz	
Finland	230V	50 Hz	
France	230V	50 Hz	
Germany	230V	50 Hz	
Hong Kong	220V*	50 Hz	
India	230V	50 Hz	
Italy	230V	50 Hz	
Japan	100V	50/60 Hz*	*Eastern Japan 50 Hz (Tokyo, Kawasaki, Sapporo, Yokohoma, and Sendai); Western Japan 60 Hz (Osaka, Kyoto, Nagoya, Hiroshima)
Malaysia	240V	50 Hz	
Netherlands	230V	50 Hz	
Portugal	230V	50 Hz	
Spain	230V	50 Hz	
Sweden	230V	50 Hz	
Switzerland	230V	50 Hz	
Taiwan	110V	60 Hz	
Thailand	220V	50 Hz	
United Kingdom	230V*	50 Hz	*Outlets typically controlled by adjacent switch. Though *nominal* voltage has been officially changed to 230V, 240V is within tolerances and commonly found.
United States of America	120V	60 Hz	

Appendix I: 3GPP

To use the 3GPP function, in addition to previous section, you might need more information or configuration to make this function work.

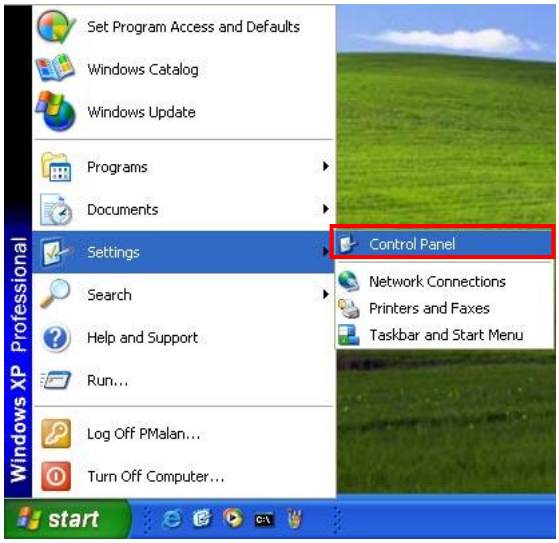
[Note] To use the 3GPP function, it strongly recommends installing the Networked Device with a public and fixed IP address without any firewall protection.

- **RTSP Port:** Port 554 is the default for RTSP service. However, sometimes, some service providers change this port number for some reasons. If so, user needs to change this port accordingly.
- **Dialing procedure:**
  1. Choose a verified player (PacketVideo or RealPlayer currently)
  2. Use the following URL to access: rtsp://*host*/mpeg4/media.3gp
     Where *host* is the host name or IP address of the camera.
- **Compatible 3G mobile phone:** Please contact your dealer to get the approved list of compatible 3G phone.

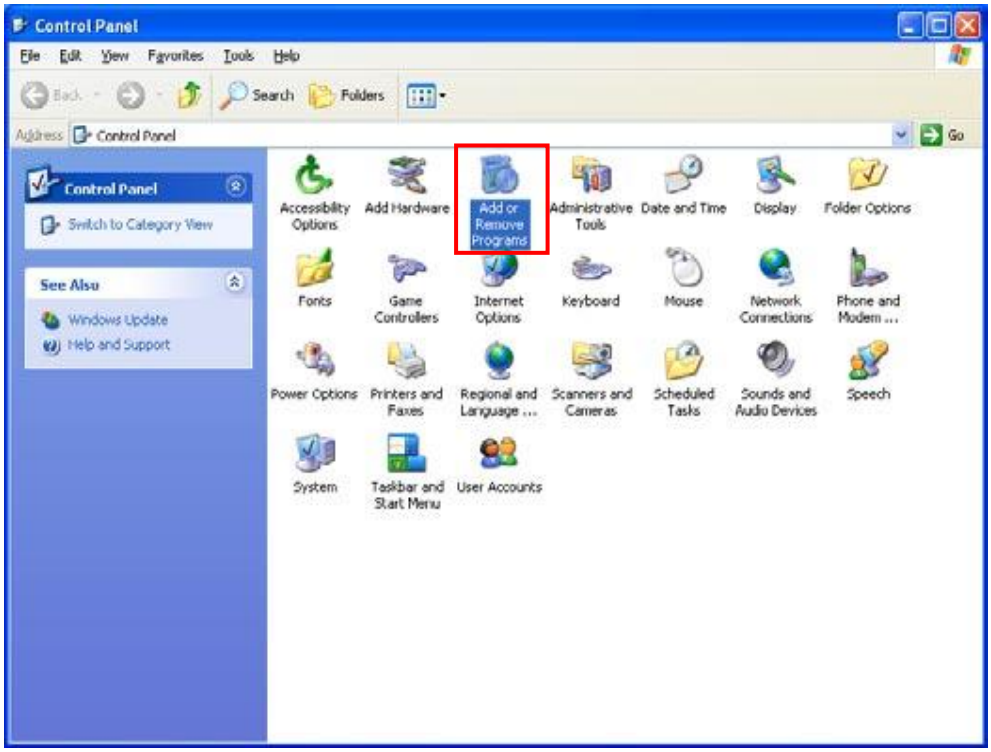
Appendix J: Enable UPnP of Windows XP

Use the following steps to enable UPnP settings only if your operating system of PC is running Windows XP.

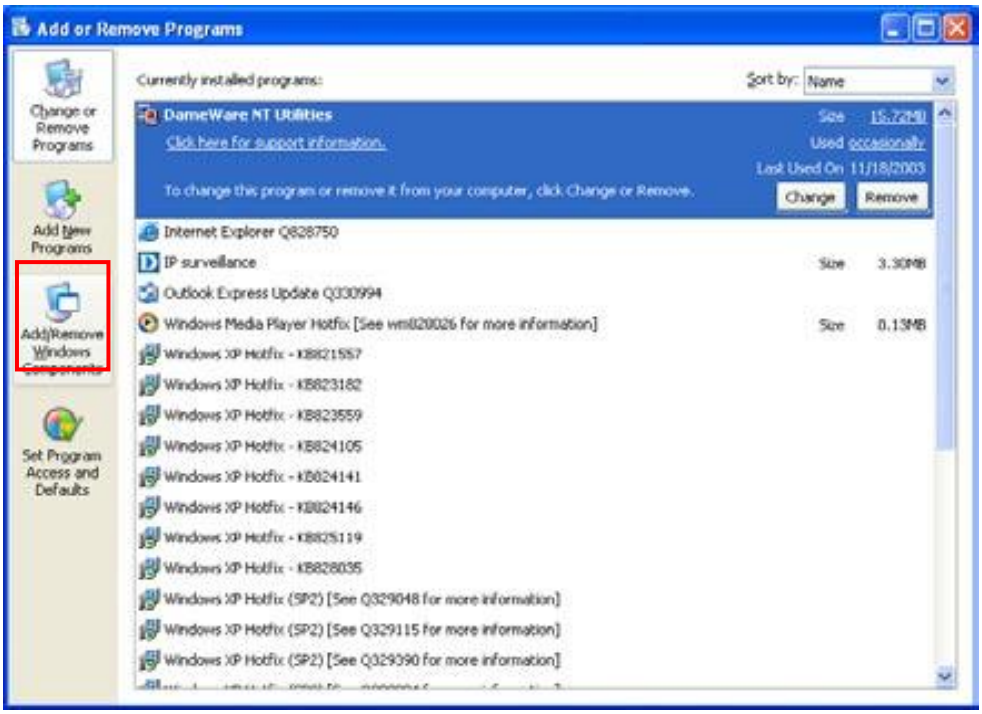
1. Go to **Start > Settings** > **Control Panel**



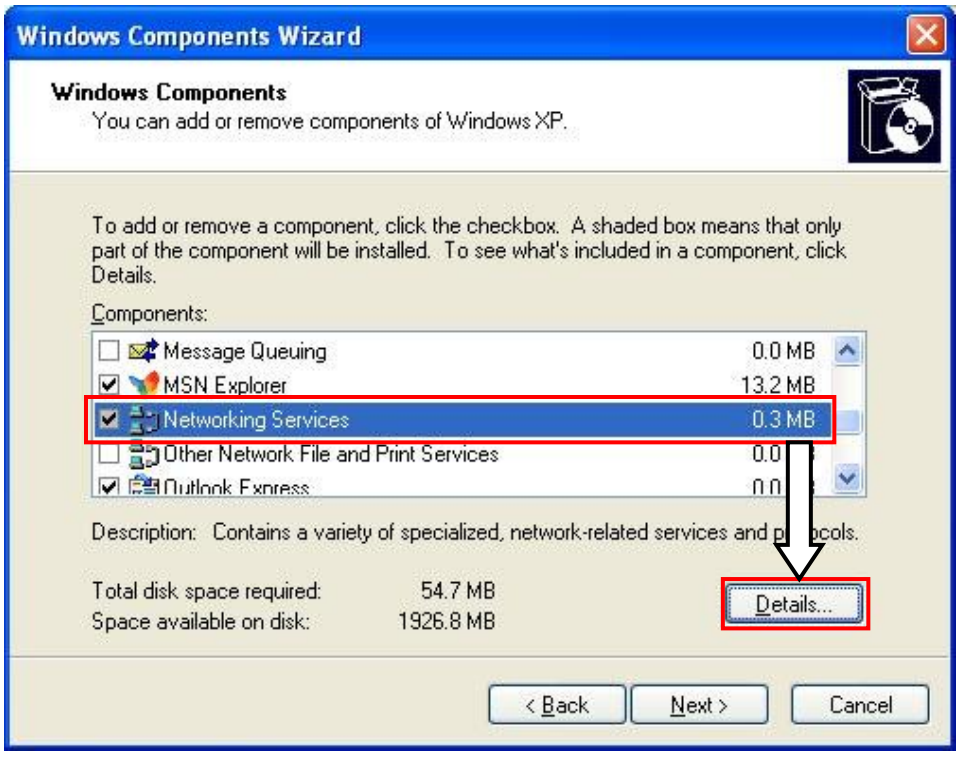
2. Click **Add or Remove Programs**



3. Click **Add/Remove Windows Components**

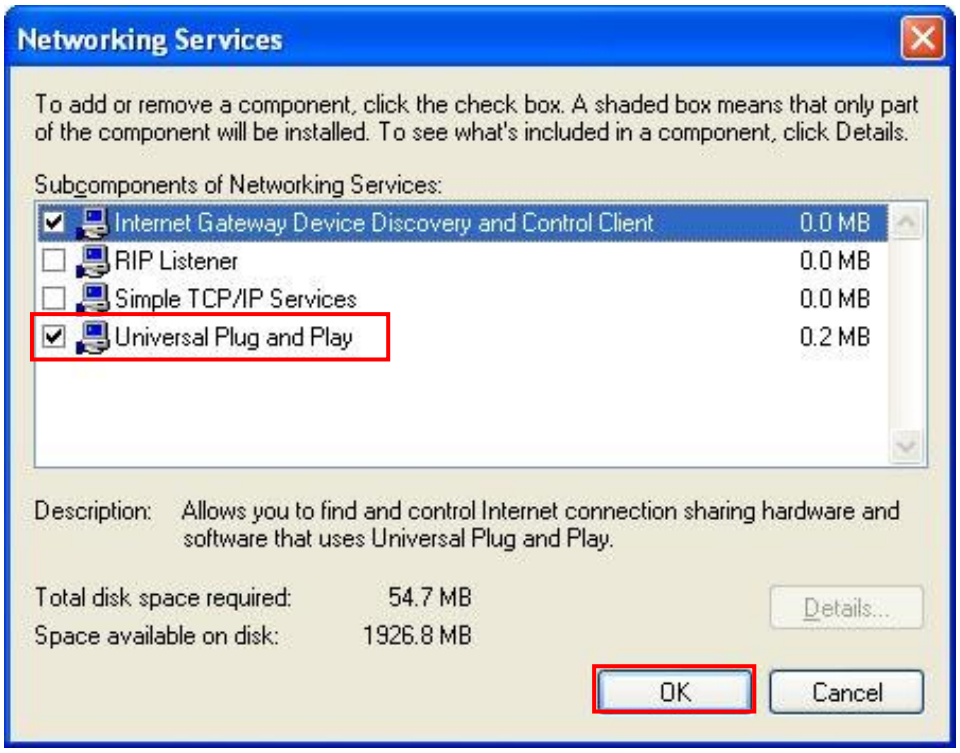

Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Sort by: Name
DameWare NT Utilities
Click here for support information.
To change this program or remove it from your computer, click Change or Remove.
Change
Remove
Internet Explorer Q828750
IP surveillance
Outlook Express Update Q330994
Windows Media Player Hotfix [See wm820026 for more information]
Windows XP Hotfix - KB821557
Windows XP Hotfix - KB823182
Windows XP Hotfix - KB823559
Windows XP Hotfix - KB824105
Windows XP Hotfix - KB824141
Windows XP Hotfix - KB824146
Windows XP Hotfix - KB825119
Windows XP Hotfix - KB828035
Windows XP Hotfix (SP2) [See Q329048 for more information]
Windows XP Hotfix (SP2) [See Q329115 for more information]
Windows XP Hotfix (SP2) [See Q329390 for more information]

4. The following screen will appear:

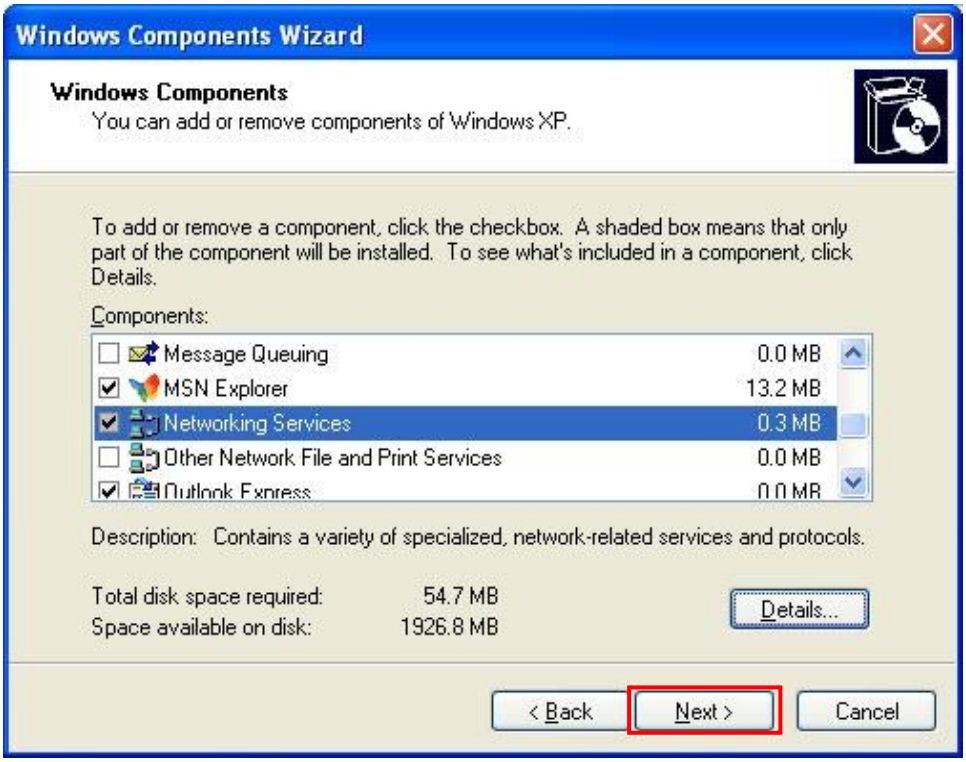

Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Message Queuing 0.0 MB
MSN Explorer 13.2 MB
Networking Services 0.3 MB
Other Network File and Print Services
Outlook Express
Description: Contains a variety of specialized, network-related services and p cols.
Total disk space required: 54.7 MB
Space available on disk: 1926.8 MB
Details...
< Back
Next >
Cancel

5. Select **Networking Services** and click **Details**.

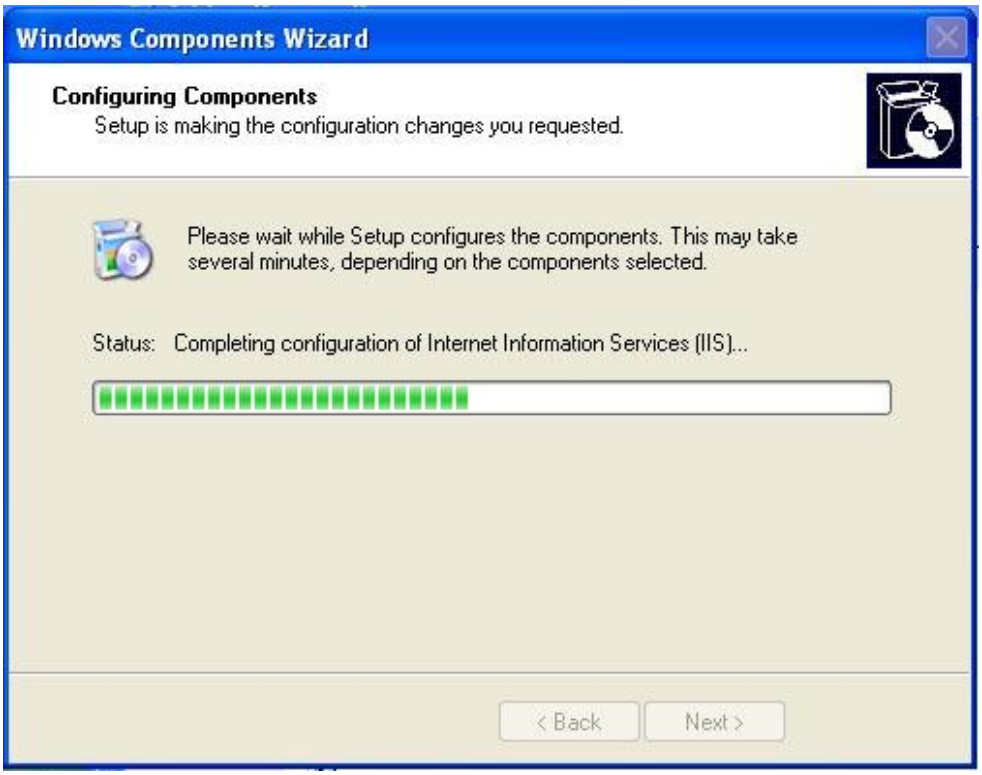
6. Select **Universal Plug and Play** and click **OK**.


Networking Services
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Networking Services:
Internet Gateway Device Discovery and Control Client 0.0 MB
RIP Listener 0.0 MB
Simple TCP/IP Services 0.0 MB
Universal Plug and Play 0.2 MB
Description: Allows you to find and control Internet connection sharing hardware and software that uses Universal Plug and Play.
Total disk space required: 54.7 MB
Space available on disk: 1926.8 MB
Details...
OK
Cancel

7. Click **Next**.


Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Message Queuing 0.0 MB
MSN Explorer 13.2 MB
Networking Services 0.3 MB
Other Network File and Print Services 0.0 MB
Outlook Express 0.0 MB
Description: Contains a variety of specialized, network-related services and protocols.
Total disk space required: 54.7 MB
Space available on disk: 1926.8 MB
Details...
< Back
Next >
Cancel

8. Please wait while Setup configures the components.


Windows Components Wizard
Configuring Components
Setup is making the configuration changes you requested.
Please wait while Setup configures the components. This may take several minutes, depending on the components selected.
Status: Completing configuration of Internet Information Services (IIS)...
< Back
Next >

9. Click **Finish**.

Windows Components Wizard
Completing the Windows Components Wizard
You have successfully completed the Windows Components Wizard.
To close this wizard, click Finish.
< Back
Finish